



August 9, 2019

Tony Howes  
Project Manager  
Utah Department of Environmental Quality  
Division of Environmental Response and Remediation  
195 North 1950 West  
P.O. Box 144840  
Salt Lake City, Utah 84114-4840

**Re: Draft Second Quarter 2019 (May 29, 2019) Sampling and Results Summary  
Five Points PCE Plume Site  
Davis County, Utah  
Work Assignment No. 06 under Contract No. 146237**

Dear Mr. Howes:

This letter report summarizes and presents the results of the 2019 second quarter sampling conducted at the Five Points PCE Plume Site in May 2019, which constitutes the sixth quarterly sampling event to be conducted under this work assignment.

Samples were collected from 14 of the 19 site monitoring wells, as shown on Figure 1 and summarized in Table 1. MW1-2004 and MW2-2004 were not sampled because they were dry. MW-102 was not sampled due to its initial non-detect result and because MW-103 has provided bounding of the tetrachloroethene (PCE) plume in that area. MW-106S and MW-107S were not sampled also due to their initial non-detect results and because they are completed above the PCE plume.

Samples for this quarter were collected in accordance with the project Sampling and Analysis Plan using HydraSleeves, which were deployed in the wells on May 24, 2019. Water levels were recorded at each well prior to deploying the HydraSleeves (refer to Figure 1 for water table elevations and Attachment 4 for water level information over time). The HydraSleeves were set at the depths where the highest concentrations of PCE were previously detected, which for MW-105 is at the water table; for all other wells (except MW-101) it is the middle of the screened interval, which was set based on the highest detected PCE concentrations observed during drilling of the well. For MW-101, the highest concentration observed during drilling was at the water table, which is where the top of the 30-foot screen was set, the idea being that the long screen would allow for mining of the water table, which is what was occurring at the time. However, water levels in the vicinity of MW-101 historically increased, flooding the screen. Therefore, the HydraSleeve at MW-101 has historically been set to collect water from the top of the screened interval, which was approximately ten feet below the water table. During this sampling event the water table was coincident with the top of the screened interval at MW-101, therefore, the sample was collected at the water table. The associated field forms are included in Attachment 1.

The HydraSleeves were pulled and samples collected on May 29, 2019. Field water quality parameters (pH, temperature, conductivity, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) were measured at each sample location using a YSI-556 multi-probe meter and recorded on the HydraSleeve Sampling form. Samples were submitted to ALS Laboratories in Salt Lake City for volatile organic compound (VOC) analysis by EPA Method SOM02.4. The associated field forms are included in Attachment 1. The analytical data package and Excel file electronic data deliverable from ALS are included in Attachment 2. The data was validated by an AECOM chemist in accordance with the Quality Assurance Project Plan (QAPP). The data was found to be useable as qualified, with the majority of the qualifications being estimated (J) or non-detect (U). Samples 5P-MW101-158 and 5P-MW101-158 –Y required dilutions for tetrachloroethene results exceeding the calibration range. Only the results within the calibration range were selected for reporting from the dilution. Therefore, no results were reported as non-detect at elevated RLs. It is of note that the tetrachloroethene result for 5P-MW101-158 and 5P-MW101-158 –Y were both qualified as estimated (J) due to the relative percent difference (RPD) between the reported results of these normal and field duplicate samples being outside the acceptable range. Additionally, there were several outliers in the method blank and trip blank. Result qualifications are detailed in the data validation report (Attachment 3)

Table 1 summarizes the PCE and daughter product results for this quarter of sampling; and for comparison purposes, Table 2 summarizes the PCE concentrations at each monitoring well and sampled municipal well over time. Attachment 4 includes a summary of well information, current and historic water levels, and PCE information, as well as hydrographs depicting this data for each monitoring well.

Figure 1 presents the contoured PCE plume based on the May 2019 results, as well as the footprint of the PCE plumes for the previous sampling events conducted at the site on the full set of site wells. The May 2019 groundwater elevations at each well are also shown, along with the associated groundwater contours. PCE and groundwater contours were prepared using the Surfer Version 15 Contouring Package, followed by manual interpretive editing and smoothing. The contouring package takes the point data (in this case water level elevations or PCE concentrations and piezometer locations) and interpolates them to a regular grid using the kriging interpolators available in Surfer; contours are then generated from the interpolated grid. These computer-generated contours were manually smoothed and edited to honor known data points and to reflect professional judgment in areas of sparse data. In generating the groundwater contours, where nested wells exist, the deep wells were used to produce the contours.

Figure 1 also includes the most recent PCE concentrations for municipal wells that were sampled by the respective municipality. During this quarter, the following municipal wells were sample during the same time frame as the sampling conducted with Hydrasleeves; WC#3, WC#4, WC#5, Freda Well, New Well Honey Well, and 1100 North Well and the following municipal wells have older PCE results; WC#1, WC#2 and Bountiful Well. However, it should be noted that these samples are not collected from discrete depth intervals like the Hydrasleeve samples (with the exception of the historic WC#2 sample, which was collected using a Hydrasleeve). They are collected across large screened intervals that would likely

collect water from unimpacted intervals as well as impacted intervals. As such, they are not directly comparable to the Hydrasleeve samples and are, therefore, not used in the PCE contouring effort.

Pumping rates for the Weber Basin Water Conservancy District (WBWCD), City of North Salt Lake (NSL), and City of Woods Cross municipal supply wells were verified in May 2019 and are presented, along with the most recent PCE concentrations available, in Table 3. All wells are either operating within the historical ranges previously reported or are not currently in use. Because these pumping rates are consistent with or less than historical trends, the Five Points PCE plume is not expected to migrate counter to the current conceptual site model.

We appreciate the continued opportunity to provide professional services to your agency. If you have any questions regarding this deliverable, please do not hesitate to contact me at (801) 904-4073.

Sincerely,

**AECOM**



Tammi Messersmith, PE  
Project Manager

cc: Sam Garcia, EPA

**Attachments:****Tables:**

Table 1 – Five Points PCE and Daughter Product Quarterly Data, May 29, 2019

Table 2 – Five Points PCE Concentrations Over Time

Table 3 – Latest Municipal Well Pumping Rates and PCE Data

**Figures:**

Figure 1 – Comprehensive Site Map Showing PCE Plume (May 2019)

**Attachments:**

Attachment 1 – Field Forms

Attachment 2 – ALS Analytical Data Package and Electronic Data Deliverable for May 29, 2019

Attachment 3 – Data Validation Report

Attachment 4 – Monitoring Well and Water Level/PCE Information and Hydrographs



## Tables

**Table 1**  
**Five Points PCE and Daughter Product Quarterly Data**  
**May 29, 2019**

Sample ID	Sample Depth (ft bgs)	Analyte	Result <sup>(1)</sup> ( $\mu\text{g/L}$ )
MW-101	158	Tetrachloroethene	<b>29</b> J
		Trichloroethene	0.41J
		cis-1,2-Dichloroethene	0.14J
		Vinyl chloride	<0.50U
MW-101 <sup>(2)</sup>	158	Tetrachloroethene	<b>41</b> J
		Trichloroethene	0.50J
		cis-1,2-Dichloroethene	0.13J
		Vinyl chloride	<0.50U
MW-103	118	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-104	120	Tetrachloroethene	<b>9.5</b>
		Trichloroethene	0.083J
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-105	143	Tetrachloroethene	1.8
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-106I	145	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-106D	195	Tetrachloroethene	0.86
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-107I	145	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-107D	200	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-108I	149	Tetrachloroethene	0.51
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-108D	214	Tetrachloroethene	2.0
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-109I	169	Tetrachloroethene	1.0
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-109D	230	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-110I	208	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW-110D	301	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U
MW1-2004	Dry	Tetrachloroethene	NA
		Trichloroethene	NA
		cis-1,2-Dichloroethene	NA
		Vinyl chloride	NA
MW2-2004	Dry	Tetrachloroethene	NA
		Trichloroethene	NA
		cis-1,2-Dichloroethene	NA
		Vinyl chloride	NA
Trip Blank	NA	Tetrachloroethene	<0.50U
		Trichloroethene	<0.50U
		cis-1,2-Dichloroethene	<0.50U
		Vinyl chloride	<0.50U

**Notes:**

(1) - Bold values indicate PCE concentrations exceed 5  $\mu\text{g/L}$

(2) - Field duplicate collected at MW-101

$\mu\text{g/L}$  - Micrograms per liter

bgs - Below ground surface

ft - Feet

NA - Not applicable

NM - Not measured

PCE - Tetrachloroethene

D - Laboratory diluted sample

U - Below laboratory detection limit

J - Estimated value based on results of the data validation

**Table 2**  
**Five Points PCE Concentrations Over Time**

Collection Date		09/20/10	01/27/11	11/16/11	11/17/11	02/02/12	04/06/12	05/15/12	08/30/12	09/05/12	11/28/12	02/26/13	01/28/14	05/14/14	08/14/14	11/13/14	02/11/15	02/16/18	05/16/18	08/29/18	11/29/18	02/27/19	05/29/19	
Location	Sample depth (ft bgs) <sup>(1)</sup>	PCE µg/L <sup>(2)</sup>																						
MW-101	158 (153-160)	32	30			12		8.1	1.4		2.3	2.1	14	9.4	24 D	18	52 DB	13 D	27 DB	23 D	21 D	29	41	
MW-101	170	14																						
MW-101	180	7.1																						
MW-102	123	<0.5																						
MW-103	118 (108-118)	0.13	<0.5 U			0.19 U		0.19 J	0.35 J		0.15 J	<0.5	0.14 J	0.16 J	<0.5 U	<0.5 U	0.17 J	0.17 J	0.17 J	<0.50 U	0.19 J	NS	<0.50 U	
MW-104	120 (119-120)		19			26		14	18		14	21	18	17	14	12	10	5.0	8.4	5.3	3.4	12	9.5	
MW-105	143 (135-146)		0.9			0.76		0.26 J	0.18 J		0.18 J	0.16 J	0.36 J	0.54	1.1	1.3	0.97	2.6	2.2	2.1	1.1	1.9	1.8	
MW-106S	66		<0.5			<0.5																		
MW-106I	145 (145-146)					9.6		7.8		8.4	4.6	6.7	7.3	4.9	5.2	6.1	1.8 B	2.0	0.9	1.8	0.45 J	3.4	0.24	
MW-106D	195 (192-197)					1		1.2 J	2.2		2.1	2.7	2.2	2.7	2	2.2	0.64 B	0.38 J	1.2	2.3	1.8	1.1	0.86	
MW-107S	66		<0.5			<0.5																		
MW-107I	145 (145)					1.2		1	1.1		1.2	1.2	1.3	0.36 J	0.87	1.1	0.94 B	0.5	0.3 J	0.26	0.16 J	0.35 J	<0.50 U	
MW-107D	200 (200-203)					1.4		1.3	1.7		1.5	2.3	1.7	1.3	1.5	2	0.89 B	2.0	0.13 J	0.29 J	1.20	0.44 J	<0.50 U	
MW-108I	149 (149)									1	0.71	0.88	0.93	0.78	1.1	1.1	0.98 B	0.35 J	0.33 J	0.48 J	0.65	0.58	0.51	
MW-108D	214 (214)							7.2 J		4.7	6.5	5.9	6.6	5.5	5.5	4.9 B	3.0	1.7	3.0	3.0	3.2	2.0		
MW-109I	169 (167-169)							0.59		1.2	1.5	1	1.2	0.38 J	1.7	0.36 JB	0.73	0.46 J	1.5	0.57	1.1	1.00		
MW-109D	230 (215-230)							0.26 J		0.21 J	0.6	0.66	0.83	0.84	0.69	0.58 B	0.98	0.64	0.36 J	0.4 J	0.53	<0.50 U		
MW-110I	208 (206-208)							0.3 J		<0.5	0.12 J	<0.5	0.12 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U		
MW-110D	301 (298-301)							2.2		2.2	2.6	2	0.78	1.2	1.5	0.53 B	0.67	0.43 J	0.56	0.39 J	0.26 J	<0.50 U		
MW-1-2004	108 (101-112)	9.3	3.6			39		13	46		22	21	9.5	15	Dry	Dry	4.7 B	3.7	1.4	Dry	Dry	Dry	Dry	
MW-2-2004	110 (104-114)	0.73	<0.5 U			0.92		1.5	1.4		1	2.2	0.25 J	0.26 J	Dry	0.34	0.24 JB	0.19 J	0.17 J	Dry	Dry	Dry	Dry	
WC#2	110				<0.5																			
WC#2	128				<0.5																			
WC#2	148				<0.5																			
WC#2	158				<0.5																			
WC#2	180				<0.5																			
Freda Well	196							2.8	2.5	3.6		2.5	2.7											
Freda Well	221							2.6 J	5.4	3.5		2.8	5.6											
Freda Well	336							3.9	3.8	2.8		3	5.6											
Freda Well	366							1.6	2.2															
Freda Well	421							2	2.2															

**Notes:**

<sup>(1)</sup> - Most recent depth (historical range in parentheses)

<sup>(2)</sup> - Bold values indicate PCE concentrations exceed 5 µg/L. Shaded cells indicate the well was not sampled on that date.

PCE - Tetrachloroethene

ft - feet

bgs - below ground surface

NS - Not Sampled due to access issue

µg/L - micrograms per liter

J - Estimated value based on results of the data validation

U - Below laboratory detection limit based on results of the data validation

D - Laboratory diluted samples

B - Analyte was found in the associated method blank

JB - Estimated quantity. Analyte was found in the associated method blank.

**Table 3**  
**Latest Municipal Well Pumping Rates and PCE Data**

Municipality	Sample ID	Pumping Rates <sup>(1)</sup> (gpm)	Sample Date	Result ( $\mu\text{g}/\text{L}$ )
Weber Basin Water Conservancy District	Bountiful Well	2,250	9/20/2017	ND
North Salt Lake	New Well	1,050	6/19/2019	ND
	1100 North Well	1,400	6/19/2019	0.6
	Honey Well	900	6/19/2019	1.3
	Freda Well	In use – 500 <sup>(2)</sup>	6/19/2019	2.0
Woods Cross	WC1 <sup>(3)</sup>	Not in use	12/19/2012	1.1
	WC2 <sup>(4)</sup>	Not in use	11/16/2011	ND
	WC3 <sup>(5)</sup>	Not in use	4/1/2019	ND
	WC4 <sup>(6)</sup>	1,000	6/6/2019	1.8
	WC5 <sup>(7)</sup>	Not in use	4/1/2019	ND

**Notes:**

Bold values indicate PCE concentrations collected in current quarter

<sup>(1)</sup> Approximate pumping rate during the current quarter of site sampling

<sup>(2)</sup> Freda Well is pumped maximum from 10 pm to 7 am

<sup>(3)</sup> historically pumped at approximatly 500 gpm.

<sup>(4)</sup> historically pumped at approximatly 280 gpm.

<sup>(5)</sup> historically pumped at approximatly 1,000 gpm

<sup>(6)</sup> Capacity of 1,700 gpm

<sup>(7)</sup> historically pumped at approximatly 1,000 gpm

$\mu\text{g}/\text{L}$  - micrograms per liter

gpm - gallons per minute

NA - not applicable

ND - below laboratory detection limit

NS - not sampled

**Figures**





**Attachment 1**

**Field Forms**

### 5-POINTS GROUNDWATER ELEVATION AND HYDRASLEEVE (HS) SET FORM

Monitoring Well	Sample (Yes/No)	Screen Interval (ft BGS)	Water Level Date	Depth to Water (DTW)	Total Depth	Proposed HS Set Depth (top of HS, ft BTOC)	Actual HS Set Depth (top of HS, ft BTOC)	Hydrasleeve Set Date	Hydrasleeve Set Time	QA/QC	Comments
MW 1-2004	Yes	82-112	5/24/2019	Dry	—	3' Below DTW or at 85 ft if Screen is Flooded	—	—	—	FD	Dry
MW 2-2004	Yes	90-116	5/24/2019	Dry	—	3' Below DTW or at 93 ft if Screen is Flooded	—	—	—	NA	Dry
MW-101	Yes	155-185	5/24/2019	154.93		3' Below DTW or at 158 ft if Screen is Flooded	158	5/24/2019	1050	NA	
MW-102	No	115-135	5/24/2019	118.60							
MW-103	Yes	105-125	5/24/2019	115.47		3' Below DTW or at 108 ft if Screen is Flooded	108.5	5/24/2019	1030	NA	118.5
MW 104	Yes	115-135	5/24/2019	96.30		120	120	5/24/2019	940	NA	
MW 105	Yes	136-156	5/24/2019	140.08		3' Below DTW or at 139 ft if Screen is Flooded	143	5/24/2019	1110	MS/MSD	
MW 106s	No	60-70	5/24/2019	58.14							
MW 106i	Yes	138-148	5/24/2019	64.55		145	145	5/24/2019	900	NA	
MW 106d	Yes	188-198	5/24/2019	64.91		195	195	5/24/2019	910	NA	
MW 107s	No	60-70	5/24/2019	53.71							
MW 107i	Yes	138-148	5/24/2019	65.12		145	145	5/24/2019	920	NA	
MW 107d	Yes	193-203	5/24/2019	65.20		200	200	5/24/2019	930	NA	
MW-108i	Yes	140-150	5/24/2019	44.86		149	149	5/24/2019	1150	NA	
MW-108D	Yes	204-214	5/24/2019	45.94		214	214	5/24/2019	1200	NA	
MW-109i	Yes	160-170	5/24/2019	49.79		169	169	5/24/2019	1140	NA	
MW-109D	Yes	210-220	5/24/2019	57.92		230	230	5/24/2019	1130	NA	
MW-110i	Yes	198-208	5/24/2019	57.39		208	208	5/24/2019	1210	NA	
MW-110D	Yes	292-302	5/24/2019	49.41	+300	301	301	5/24/2019	1220	NA	
Freda 193-196	No	Multiple									Measure distance from old measuring point
Freda 218-221	No	Multiple									
Freda 333-336	No	Multiple		61.3	NM						
New Well	No										
WC-2	No	Multiple	82	79.5	NM						
WC-3	No	220-393	HAUS	40	NM						Broke Well head removed
WC-4	No	260-380	36	30.5	NM						

**Comments/Notes**

TOS = Top of Screen

Update grey highlighted cells based on water level data for current round of sampling. Top of Hydrasleeve should be set at 3 feet below top of water or 3 ft below top of screen if water level indicates the screen is flooded.

LOCK #: 3210

Sampling Personnel: \_\_\_\_\_

Page \_\_\_\_ of \_\_\_\_\_

NS = Not Sampled

NM = Not Measured

**AECOM**

## 5-POINTS GROUNDWATER SAMPLING FORM

Monitoring Well	QA/ QC	Sample Date	Sample Time	pH	Temp	Cond	ORP	DO	Comments
MW 1-2004	NA	5/29/2019							Dry
MW 2-2004	NA	5/29/2019							Dry
MW-101	FD	5/29/2019	1030	7.15	7.57	1.468	137.9	11.06	158 <i>avg time @ 1035</i>
MW-103	NA	5/29/2019	1010	6.90	15.27	1.586	136.5	10.58	118
MW 104	NA	5/29/2019	1000	6.99	14.97	1.640	137.5	10.45	120
MW 105	MS/MSD	5/29/2019	1020	7.18	15.26	1.647	143.9	11.53	143
MW 106i	NA	5/29/2019	945	7.28	14.77	0.665	126.1	4.53	145
MW 106d	NA	5/29/2019	940	7.43	15.35	0.735	204.2	2.61	195
MW 107i	NA	5/29/2019	920	6.96	7.26	.871	145.1	3.31	145
MW 107d	NA	5/29/2019	925	6.98	15.86	1.093	141.0	8.78	200
MW-108i	NA	5/29/2019	1220	7.11	15.31	1.376	57.6	3.22	149
MW-108D	NA	5/29/2019	1230	7.26	14.86	1.234	115.0	4.77	214
MW-109i	NA	5/29/2019	1100	7.22	16.33	1.212	32.9	6.45	169
MW-109D	NA	5/29/2019	1110	7.33	15.09	1.167	74.2	4.03	230
MW-110i	NA	5/29/2019	1240	7.50	15.04	0704	67.4	96.3	208
MW-110D	NA	5/29/2019	1250	7.39	17.45	.876	102.1	6.24	301

Comments/Notes *Water Quality Meter Serial #: 12D101257*

LOCK #: 3210

Sampling Personal: Lyndsey Anderson/Matt Zion

Page \_\_\_\_ of \_\_\_\_

NS = Not Sampled

**AECOM**

## **Equipment Calibration Form**

Project: S - Points Sampling  
Project Number:  
Instrument: YSI 5560  
Model/Serial Number: 12D1012S-1  
Weather: overcast

Calibration Personnel: Lynndsey Anderson



**Certificate of Compliance  
and Calibration**

<b>Certificate Number</b>		5/23/2019 - 6296																																																																	
<b>Order#</b>	03018318	<b>Make/Model</b>	YSI 556-4																																																																
<b>Customer#</b>	0021330	<b>Asset #</b>	1147387																																																																
<b>Customer Name</b>	AECOM/URS I & E	<b>Serial Number</b>	12D101257																																																																
<table border="1"><tr><td colspan="4"><b>pH Sensor Installed and Calibrated</b></td></tr><tr><td>Set Point</td><td>pH 4.00</td><td>pH 7.00</td><td>pH 10.00</td></tr><tr><td>Lot Number</td><td>13473</td><td>7112990</td><td>8070995</td></tr><tr><td>Final Span</td><td>pH 4.00</td><td>pH 7.00</td><td>pH 10.00</td></tr><tr><td colspan="2"><b>DO Sensor Installed and Calibrated</b> <input checked="" type="checkbox"/></td><td><b>ORP Installed?</b></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Temperature:</td><td>20.2°</td><td>ORP Cal Value:</td><td>229 mV</td></tr><tr><td>Set Point</td><td>9.05</td><td>ORP Lot#:</td><td>8072549</td></tr><tr><td>Final Span</td><td>9.05</td><td>Final Span</td><td>229 Mv</td></tr><tr><td colspan="4"><b>Conductivity Sensor Installed and Calibrated</b> <input checked="" type="checkbox"/></td></tr><tr><td>Set Point</td><td>4.49 ms/cm</td><td colspan="2"></td></tr><tr><td>Lot Number</td><td>13473</td><td colspan="2"></td></tr><tr><td>Final Span</td><td>4.49 ms/cm</td><td colspan="2"></td></tr><tr><td colspan="4"><b>Turbidity Sensor Installed and Calibrated</b> <input type="checkbox"/></td></tr><tr><td>Set Point</td><td></td><td colspan="2"></td></tr><tr><td>Lot Number</td><td></td><td colspan="2"></td></tr><tr><td>Final Span</td><td></td><td colspan="2"></td></tr></table>				<b>pH Sensor Installed and Calibrated</b>				Set Point	pH 4.00	pH 7.00	pH 10.00	Lot Number	13473	7112990	8070995	Final Span	pH 4.00	pH 7.00	pH 10.00	<b>DO Sensor Installed and Calibrated</b> <input checked="" type="checkbox"/>		<b>ORP Installed?</b>	<input checked="" type="checkbox"/>	Temperature:	20.2°	ORP Cal Value:	229 mV	Set Point	9.05	ORP Lot#:	8072549	Final Span	9.05	Final Span	229 Mv	<b>Conductivity Sensor Installed and Calibrated</b> <input checked="" type="checkbox"/>				Set Point	4.49 ms/cm			Lot Number	13473			Final Span	4.49 ms/cm			<b>Turbidity Sensor Installed and Calibrated</b> <input type="checkbox"/>				Set Point				Lot Number				Final Span			
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Lot Number																																																																			
Final Span																																																																			

**Notes**

<b>Location</b>	DETROIT	<b>Asset Released In Tolerance</b>	<input checked="" type="checkbox"/>
<b>Technician</b>	S.ROBINSON	<b>All Tests Passed</b>	<input checked="" type="checkbox"/>
<b>Date</b>	5/23/2019		
<b>Time</b>	16:16		
<b>SOP#</b>	472-0020		

**Quality Control:**

**Date:**

Please Note: All tests performed with NIST Traceable Calibration Solutions at ambient room temperature, humidity, and pressure at the location listed above. Time in transit or any change in temperature, pressure, humidity, or elevation may result in changes to the calibration values listed. Performance of a bump test is recommended prior to each use; refer to owners manual for bump testing and calibration procedures. Use of this test sheet constitutes proof that the testing environment was within manufacturers' limitation and the instrument conforms to manufacturers' specification. For a copy of the calibration standard certificate of analysis or MSDS, contact us at 800-332-0435.



**ALS Environmental**  
Field Chain-of-Custody Record

CoC #:

Page 1 of 2

Client Name & Address:  AECOM 756 E Winchester St #400 SLC, UT 84107		Project Name & No.:  5-Points PCE		Analyses Requested No. of Containers      Sample for Matrix QC VDCs (SDM 01.2)      MS1MSD	Preservation Code      Sample Matrix Code Remarks	Matrix Codes: W) Water    B) Bulk L) Liquid    F) Filter S) Soil       G) Wipe C) Solid      M) Media			
Phone: 801 904 4000		ALS Quote No: 605460131 . 4						Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H <sub>2</sub> SO <sub>4</sub> to pH<2, 4°C 4) HNO <sub>3</sub> to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C	
e-mail: Tammi.Messersmith@percom.com		Report to: Tammi Messersmith							
		Report to e-mail: Tammi.Messersmith							
		Bill to: AECOM							
Field Sample Number	Site ID	Depth	Date/Time						
TB-052919	LAB Prepared	145	5/29/19 920			2 X			
SP-MW107I-145	5-points	200	5/29/19 925			3 X			
SP-MW107D-200		195	5/29/19 940			3 X			
SP-MM106D-195		145	5/29/19 945	3 X					
SP-MW106I-145		120	5/29/19 1000	3 X					
SP-MW104-120		118	5/29/19 1010	3 X					
SP-MW103-118		143	5/29/19 1020	9 XX					
SP-MW105-143		158	5/29/19 1030	3 X					
SP-MW101-158		158	5/29/19 1035	3 X					
Possible Hazard Identification		Sample Disposal		Data Deliverable:		Requested Turn Around Time			
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Rad	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Archive _____ Months	<input type="checkbox"/> Level 1	<input type="checkbox"/> Level 3	<input type="checkbox"/> 2 Days (Rush)	<input type="checkbox"/> 7 Days (Rush)	
<input type="checkbox"/> Flammable	<input type="checkbox"/> Poison	<input checked="" type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Disposal by Lab	(fees assessed for samples retained > 3 months)	<input type="checkbox"/> Level 2	<input checked="" type="checkbox"/> Level 4	<input type="checkbox"/> 3 Days (Rush)	<input checked="" type="checkbox"/> 14 Days	
EDD Type:						(Rush = email data by COB on day due. Surcharges assessed.)			
Carrier/Airbill #:									
Relinquished by: (Signature)		Date 5/29/19	Time 13:33	Received by: (Signature)		Date 05/29/19	Time 13:33	Shipped to: ALS Environmental 960 West LeVoy Drive Salt Lake City, UT 84123 Phone: (800) 356-9135 Phone: (801) 266-7700 FAX: (801) 268-9992 WEB: www.alsglobal.com	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time		

White - Laboratory Copy

Yellow - Client Copy



**ALS Environmental**  
Field Chain-of-Custody Record

CoC #:

Page 2 of 2

Client Name & Address: <b>AECOM</b> 756 E Winchester St # 400 SLC UT 84107		Project Name & No.: <b>5 Points PCE</b> <b>60546131.4</b>		No. of Containers  Sample for Matrix QC	Analyses Requested						Preservation Code  Sample Matrix Code	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media		
Phone: <b>801 904 4000</b>		ALS Quote No:										Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H <sub>2</sub> SO <sub>4</sub> to pH<2, 4°C 4) HNO <sub>3</sub> to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C		
e-mail: <b>tammi.messersmith@aecom.com</b>		Report to: <b>Tammi Messersmith</b>										Remarks		
Bill to: <b>AECOM</b>														
Field Sample Number	Site ID	Depth	Date/Time											
5P-MW109I-169	5-Points	169	5/29/19 1100	3	X									
5P-MW109D-230		730	5/29/19 1110	3	X									
5P-MW108I-149		149	5/29/19 1220	3	X									
5P-MW108D-214		214	5/29/19 1230	3	X									
5P-MW110I-208		208	5/29/19 1240	3	X									
5P-MW110D-301		301	5/29/19 1250	3	X									
<i>[Handwritten notes and signatures]</i>														
Possible Hazard Identification		Sample Disposal		Data Deliverable:		Requested Turn Around Time								
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Rad	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Archive _____ Months	<input type="checkbox"/> Level 1	<input type="checkbox"/> Level 3	<input type="checkbox"/> 2 Days (Rush)	<input type="checkbox"/> 7 Days (Rush)						
<input type="checkbox"/> Flammable	<input type="checkbox"/> Poison	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Disposal by Lab	(fees assessed for samples retained > 3 months)	<input type="checkbox"/> Level 2	<input checked="" type="checkbox"/> Level 4	<input type="checkbox"/> 3 Days (Rush)	<input checked="" type="checkbox"/> 14 Days						
(Rush = email data by COB on day due. Surcharges assessed.)														
Carrier/Airbill #:														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)				Date	Time	Shipped to:					
<i>[Signature]</i>	5/29/19	1332	<i>[Signature]</i>				05/29/19	1333	ALS Environmental 960 West LeVoy Drive Salt Lake City, UT 84123 Phone: (800) 356-9135 Phone: (801) 266-7700 FAX: (801) 268-9992 WEB: www.alsglobal.com					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)				Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)				Date	Time						

White - Laboratory Copy

Yellow - Client Copy

Americas

# Task Hazard Assessment

S3AM-209-FM6

Date: 5/27/2019	Project Name / Location: 5-Point Plume
Permit / Job Number:	Project Number: 60546131
Description of Task: GW sampling and monitoring	

**Do you have a pre-job hazard assessment (JHA) specific to this task in your hands?**

- Yes – review the steps, hazards, and precautions. Attach and reference JHA in the form below. Add any additional steps, hazards, and precautions to this form otherwise unidentified on JHA.

No – list all steps, hazards, and precautions associated with the task in the form below.

The Task Hazard Assessment is to be completed at the worksite by the individual(s) who is intended to conduct the task immediately prior to initiating the associated task. Number and attach additional pages if necessary.

Worker/Visitor acknowledgement and review of this content on back of this document. Originator to also sign Worker acknowledgement section.

## Originator

Lyndsey Anderson  
Print Name

Print Name

**Supervisor**

Lindsey Anderson  
Print Name

Print Name

Highest Risk Index

SIOUX CITY

**Signature**

**Signature**

## Risk Matrix on Reverse

**THIS FORM IS TO BE KEPT ON JOB SITE.**

**WORKER SIGN ON**

NAME (Please Print)

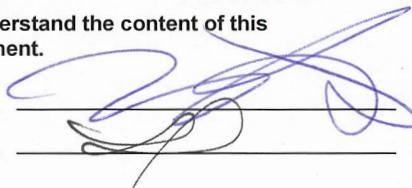
TIME

SIGNATURE

I participated in the development and understand the content of this  
Task Hazard Assessment.

McLean Carpenter

900



Lyndsey Anderson

900

**Task Hazard Assessment  
Follow-Up/Review**

Initials/Time

Initials/Time

Initials/Time

**Instructions:**

Identify basic steps of the task and associated hazards. Calculate the initial risk rating. Identify control measure to eliminate or reduce the hazard's risk and calculate the residual risk rating. If the risk rating (after controls are implemented) cannot be reduced to 4 or lower, additional approvals are needed before the activity can begin.

Employees shall monitor the activities for compliance with this document. Workers should **STOP WORK** on a task if conditions change from the planned and agreed approach to the work.

This document should be updated to reflect new conditions or changes in task methods.

**VISITOR SIGN ON**

I have read and understand the content of this Task Hazard Assessment.

Emergency Meeting / Assembly Area

Emergency Contact #

Method of Communication

**Risk Rating Matrix**

Probability	Severity				
	5 - Catastrophic	4 – Critical	3 – Major	2 – Moderate	1 - Minor
5 – Frequent	25	20	15	10	5
4 – Probable	20	16	12	8	4
3 – Occasional	15	12	9	6	3
2 – Remote	10	8	6	4	2
1 - Improbable	5	4	3	2	1

Risk Rating (Probability x Severity)	Risk Acceptance Authority
1 to 4 (Low)	Risk is tolerable, manage at local level
5 to 9 (Medium)	Risk requires approval by Operations Lead/Supervisor & SH&E Manager
10 to 25 (High)	Risk requires the approval of the Operations Manager & SH&E Director

Severity – Potential Consequences				
	People	Property Damage	Environmental Impact	Public Image/Reputation
Catastrophic	Fatality, Multiple Major Incidents	>\$1M USD, Structural collapse	Offsite impact requiring remediation	Government intervention
Critical	Permanent impairment, Long term injury/illness	>\$250K to \$1M USD	Onsite impact requiring remediation	Media intervention
Major	Lost/Restricted Work	> \$10K to \$250K USD	Release at/above reportable limit	Owner intervention
Moderate	Medical Treatment	> \$1K to \$10K USD	Release below reportable limit	Community or local attention
Minor	First Aid	<=\$1K USD	Small chemical release contained onsite	Individual complaint

Probability				
Frequent	Expected to occur during task/activity	9/10		
Probable	Likely to occur during task/activity	1/10		
Occasional	May occur during the task/activity	1/100		
Remote	Unlikely to occur during task/activity	1/1,000		
Improbable	Highly unlikely to occur, but possible during task/activity	1/10,000		

## Americas

# Task Hazard Assessment

S3AM-209-FM6

Date: 5/29/2019	Project Name / Location: 5-Point Plume
Permit / Job Number:	Project Number: 60546131
Description of Task: GW sampling and monitoring	

**Do you have a pre-job hazard assessment (JHA) specific to this task in your hands?**

- Yes – review the steps, hazards, and precautions. Attach and reference JHA in the form below. Add any additional steps, hazards, and precautions to this form otherwise unidentified on JHA.  
 No – list all steps, hazards, and precautions associated with the task in the form below.

The Task Hazard Assessment is to be completed at the worksite by the individual(s) who is intended to conduct the task immediately prior to initiating the associated task. Number and attach additional pages if necessary.

Worker/Visitor acknowledgement and review of this content on back of this document. Originator to also sign Worker acknowledgement section.

Originator Lindsey Anderson

**Supervisor** Lynsey Anderson Print Name

## Highest Risk Index

*[Signature]*

**THIS FORM IS TO BE KEPT ON JOB SITE**

**WORKER SIGN ON**

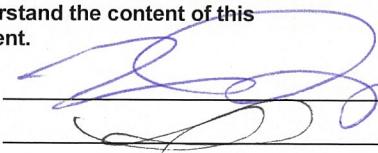
NAME (Please Print)

TIME

SIGNATURE

I participated in the development and understand the content of this  
Task Hazard Assessment.

McLean Carpenter 900



Lynsey Anderson 900


**Task Hazard Assessment  
Follow-Up/Review**

Initials/Time

Initials/Time

Initials/Time

**Instructions:**

Identify basic steps of the task and associated hazards. Calculate the initial risk rating. Identify control measure to eliminate or reduce the hazard's risk and calculate the residual risk rating. If the risk rating (after controls are implemented) cannot be reduced to 4 or lower, additional approvals are needed before the activity can begin.

Employees shall monitor the activities for compliance with this document. Workers should **STOP WORK** on a task if conditions change from the planned and agreed approach to the work.

This document should be updated to reflect new conditions or changes in task methods.

**VISITOR SIGN ON**

I have read and understand the content of this Task Hazard Assessment.

**Emergency Meeting / Assembly Area**

**Emergency Contact #**

**Method of Communication**

**Risk Rating Matrix**

Probability	Severity				
	5 - Catastrophic	4 - Critical	3 - Major	2 - Moderate	1 - Minor
5 – Frequent	25	20	15	10	5
4 – Probable	20	16	12	8	4
3 – Occasional	15	12	9	6	3
2 – Remote	10	8	6	4	2
1 – Improbable	5	4	3	2	1

Risk Rating (Probability x Severity)		Risk Acceptance Authority	
1 to 4 (Low)		Risk is tolerable, manage at local level	
5 to 9 (Medium)		Risk requires approval by Operations Lead/Supervisor & SH&E Manager	
10 to 25 (High)		Risk requires the approval of the Operations Manager & SH&E Director	

Severity – Potential Consequences				
	People	Property Damage	Environmental Impact	Public Image/Reputation
Catastrophic	Fatality, Multiple Major Incidents	>\$1M USD, Structural collapse	Offsite impact requiring remediation	Government intervention
Critical	Permanent impairment, Long term injury/illness	>\$250K to \$1M USD	Onsite impact requiring remediation	Media intervention
Major	Lost/Restricted Work	> \$10K to \$250K USD	Release at/above reportable limit	Owner intervention
Moderate	Medical Treatment	> \$1K to \$10K USD	Release below reportable limit	Community or local attention
Minor	First Aid	<=\$1K USD	Small chemical release contained onsite	Individual complaint

Probability		
Frequent	Expected to occur during task/activity	9/10
Probable	Likely to occur during task/activity	1/10
Occasional	May occur during the task/activity	1/100
Remote	Unlikely to occur during task/activity	1/1,000
Improbable	Highly unlikely to occur, but possible during task/activity	1/10,000



**Attachment 2**

**ALS Analytical Data Package and Electronic Data Deliverable  
for May 29, 2019  
(provided electronically on attached CD)**

**Attachment 3**

**Data Validation Report**

## FIVE POINTS PCE PLUME SITE QC Sample Evaluation

Data Package Number (Work Order): TV52919 (1915400)

Sampling Event Dates: May 29, 2019

Sample-specific Parameter Review/Laboratory Performance Parameters: Yes

Full Validation (e.g. result recalculation): No

Data Reviewer: Brian Rothmeyer, URS Chemist

Date Completed: July 23, 2019

Peer Reviewer: Sheri Fling, URS Quality Assurance Manager (QAM)

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Lab Identification	Matrix	Analysis
				VOCs
TB-052919	TB	1915400001	Water	X
5P-MW107I-145	SA	1915400002	Water	X
5P-MW107D-200	SA	1915400003	Water	X
5P-MW106D-195	SA	1915400004	Water	X
5P-MW106I-145	SA	1915400005	Water	X
5P-MW104-120	SA	1915400006	Water	X
5P-MW103-118	SA	1915400007	Water	X
5P-MW105-143	SA	1915400008	Water	X <sup>m</sup>
5P-MW101-158	SA	1915400011	Water	X
5P-MW101-158-Y	FD	1915400012	Water	X
5P-MW109I-169	SA	1915400013	Water	X
5P-MW109D-230	SA	1915400014	Water	X
5P-MW108I-149	SA	1915400015	Water	X
5P-MW108D-214	SA	1915400016	Water	X
5P-MW110I-208	SA	1915400017	Water	X
5P-MW110D-301	SA	1915400018	Water	X

Sample Type:

FD – Field Duplicate

SA – Sample

TB – Trip Blank

VOCs – Volatile Organic Compounds

X<sup>m</sup> – Matrix Spike/Matrix Spike Duplicate

Note: Samples 1915400009 and 1915400010 were the matrix spike/ matrix spike duplicate (MS/MSD) performed on sample 1915400008 and were not included in the sample table above. No further action was required.

Analysis: EPA – Environmental Protection Agency  
Trace VOCs (EPA SOM02.4)

The data review was conducted in accordance with the Quality Assurance Project Plan for the Remedial Design at the Five Points PCE Plume Site, Davis County, Utah (AECOM, March 2018), method requirements, and with guidance from National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2017).

### General Overall Assessment:

- Data are usable without qualification.  
 X Data are usable with qualification (See Attachment 1: Qualified Data Sheets)  
 Some or all data are unusable for any purpose (detailed below).

**Case Narrative Comments:** Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	With the exceptions noted below, the samples were received by ALS in Salt Lake City, Utah in good condition and were consistent with the accompanying chain of custody (COC).  The cooler arrived at the laboratory at a temperature of 9 degrees Celsius (°C). As the samples were received at the laboratory on ice the same day that the samples were collected, data qualification was not considered necessary.
Holding Times	Yes	The samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank • Storage Blank	No	With the exceptions listed in Table 1, target analytes were not detected within the method blanks or storage blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate 5P-MW105-143 (SOM02.4)  • Laboratory Duplicate None in this data package	Yes	<b>Matrix Spike/ Matrix Spike Duplicate (MS/MSD)</b>  The frequency of MS/MSDs met the Quality Assurance Project Plan (QAPP) requirement of one per twenty samples. The MS/MSD recoveries and relative percent differences (RPDs) were within laboratory acceptance limits or met the criteria listed in Table 1 of the QAPP.  The MS/MSD spike solution used by the laboratory for volatile organic compounds (VOC) analysis contained the minimum analyte list contained in the respective method. Because a subset of target analytes for this analysis was included in the spike solution used by the laboratory, there is no direct measure of accuracy as it pertains to the samples matrix; however, an acceptable level of accuracy with respect to the analytical method can be inferred from the continuing calibration verification (CCV), MS/MSD results for spiked analytes, and from the surrogate recoveries.

Review Parameter	Criteria Met?	Comment
		<p><b>Laboratory Duplicate</b></p> <p>A laboratory duplicate was not performed on a sample from this data package.</p>
Method Quality Control <ul style="list-style-type: none"> <li>Deuterated Surrogates</li> </ul>	Yes	The deuterated surrogate recoveries were within the method acceptance criteria.
Field Quality Control <ul style="list-style-type: none"> <li>Trip Blank/Field Blank TB-052919</li> <li>Field Duplicate 5P-MW101-158/5P-MW101-158-Y</li> <li>Equipment Blank NA</li> </ul>	No	<p><b>Trip Blank (VOCs Only)</b></p> <p>With the exceptions listed in Table 2, target analytes were not detected in the trip blank.</p> <p><b>Field Duplicate</b></p> <p>The frequency of field duplicates met the QAPP requirement of one per twenty samples.</p> <p>With the exception listed in Table 3, the comparison between results of the field duplicate pair met the criteria listed below.</p> <ul style="list-style-type: none"> <li>When both the sample and duplicate values are <math>&gt;5x</math> reporting limit (RL), acceptable sampling and analytical precision is indicated by an RPD between the results of <math>\leq 30\%</math>.</li> <li>Where the result for one or both analytes of the field duplicate pair is <math>&lt;5xRL</math>, satisfactory precision is indicated if the absolute difference between the field duplicate results is <math>&lt;2xRL</math>.</li> </ul> <p><b>Equipment Blank</b></p> <p>As dedicated equipment was used to collect these samples, an equipment blank was not submitted for this sampling event. Further action was not necessary.</p>
Reporting Limits Met?	Yes	Samples 5P-MW101-158 and 5P-MW101-158 -Y required dilutions for tetrachloroethene results exceeding the calibration range. Only the results within the calibration range were selected for reporting from the dilution. Therefore, no results were reported as non-detect at elevated RLs.
Tentatively Identified Compounds (TICs)	NA	<p><b>Method SOM02.4 VOCs</b></p> <p>A TIC search was conducted in association with the VOC analysis for the samples in this package. If the TIC library search resulted in a 85% or greater match to the reference spectrum and the TIC was reported as an identified compound, the TIC result was qualified as estimated (J ID-I). If the quality of the match was less than 85% or the analyte was reported as an “unknown”, the TIC result was qualified as tentatively identified and estimated (NJ ID-I). See Table 4 for qualification.</p>

Review Parameter	Criteria Met?	Comment
<b>Laboratory Performance Review</b>		
Initial Calibration	Yes	<p><b>Method SOM02.4 VOCs</b></p> <p>The initial calibrations (ICALs) for target analytes and associated percent relative standard deviations (%RSD) were within the method control limits.</p>
Tuning (as applicable to the method)	Yes	<p><b>Method SOM02.4 VOCs</b></p> <p>A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis. Data qualification on the basis of instrument tuning was not necessary.</p>
Initial Calibration Verification (ICV)/Continuing Calibration Verification	No	<p><b>Method SOM02.4 VOCs</b></p> <p>With the exception listed in Table 5, the percent difference (%D) for the target analytes in the ICV and opening and closing CCVs were within the method control limits.</p>
Internal Standard	Yes	The recoveries for the internal standards in field samples were within the applicable acceptance limits. Therefore, data qualification based on internal standards was not necessary.
Laboratory Control Sample/ Laboratory Control Sample Duplicate	NA	Per the method, a laboratory control sample is not applicable to this method.
Target Compound Identification	Yes	<p><b>Method SOM02.4 VOCs</b></p> <p>The quantitation sheets and total ion chromatograms were reviewed to assure that compounds reported as identified meet the criteria contained in the method. The mass spectra were reviewed for compounds reported as identified to check that the reported mass spectral data meet the mass spectral identification criteria contained in the analytical method. No errors in compound identification were found and data qualification was not necessary.</p>
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.
Package Completeness	Yes	The results are usable as qualified for the project objective, and are 100% complete.

> – Greater Than

< – Less Than

≤ – Less Than or Equal To

°C – Degrees Celsius

% – Percent

%D – Percent Difference

%RSD – Percent Relative Standard Deviation

CCV – Continuing Calibration Verification

COC – Chain of Custody

I – Indeterminate Bias

ICAL – Initial Calibration

ICV – Initial Calibration Verification

ID – Identification

MS/MSD – Matrix Spike/ Matrix Spike Duplicate

NA – Not Applicable

NJ – Tentatively Identified

QAPP – Quality Assurance Project Plan

RL – Reporting Limit

RPDs – Relative Percent Differences

TIC – Tentatively Identified Compounds

VOCs – Volatile Organic Compounds

**Table 1: Method Blank Outliers and Resultant Data Qualification**

Associated Samples	Analyte	Concentration	Qualification
			VOCs
<b>VBLKT1</b> 5P-MW104-120 5P-MW101-158 5P-MW101-158-Y 5P-MW101-158 (DL) 5P-MW101-158-Y (DL)	Acetone	1.6 µg/L	The associated sample results reported at concentrations <10x the concentration of the blank contamination were qualified as non-detect (U MB-I) at the reported concentration for results reported at concentrations greater than the RL (5.0 µg/L) or the RL for results reported at concentrations less than the RL (5.0 µg/L).
	4-Methyl-2-pentanone	0.83 µg/L	The associated sample results were reported as non-detect and qualification was not considered necessary.
	1,2,4-Trichlorobenzene	0.11 µg/L	
	1,2,3-Trichlorobenzene	0.14 µg/L	
<b>VBLKT2</b> TB-052919 5P-MW107I-145 5P-MW107D-200 5P-MW106D-195 5P-MW106I-145 5P-MW103-118 5P-MW105-143 5P-MW109I-169 5P-MW109D-230 5P-MW108I-149 5P-MW108D-214 5P-MW110I-208 5P-MW110D-301	Acetone	2.2 µg/L	The associated sample results reported at concentrations <10x the concentration of the blank contamination were qualified as non-detect (U MB-I) at the reported concentration as the results were reported at concentrations greater than the RL (5.0 µg/L).
	4-Methyl-2-pentanone	0.73 µg/L	The associated sample results were reported as non-detect and qualification was not considered necessary.
	Tetrachloroethene	0.084 µg/L	The associated sample results reported at concentrations <5x the concentration of the blank contamination were qualified as non-detect (U MB-I) at the RL as the associated sample results were reported at concentrations less than the RL (0.50 µg/L).
	1,2,4-Trichlorobenzene	0.10 µg/L	The associated sample results were reported as non-detect and qualification was not considered necessary.
	1,2,3-Trichlorobenzene	0.14 µg/L	

&lt; – Less Than

DL – Dilution

TB – Trip Blank

µg/L – Microgram per Liter

MB – Method Blank

U – Non-detect

I – Indeterminate Bias

RL – Reporting Limit

VOCs – Volatile Organic Compounds

**Table 2: Trip Blank Outliers and Resultant Data Qualification**

Table 2.11: Blank Outliers and Resultant Data Qualification			
Associated Samples	Analyte	Concentration	Qualification
VOCs			
TB-052919 5P-MW107I-145 5P-MW107D-200 5P-MW106D-195 5P-MW106I-145 5P-MW104-120 5P-MW103-118 5P-MW105-143 5P-MW101-158 5P-MW101-158 (DL) 5P-MW101-158-Y (DL) 5P-MW101-158-Y 5P-MW109I-169 5P-MW109D-230 5P-MW108I-149 5P-MW108D-214 5P-MW110I-208 5P-MW110D-301	Chloromethane	1.2 µg/L	The associated sample results reported at concentrations <5x the concentration of the blank contamination were qualified as non-detect (U TB-I) at the RL as the associated sample results were reported at concentrations less than the RL (0.50 µg/L).
	Isopropyl Alcohol	1.3 µg/L	The associated sample results reported at concentrations <5x the concentration of the blank contamination were qualified as non-detect (J TB-H) at the reported concentration.

$<-$  Less Than

$\mu\text{g/L}$  – Microgram per Liter

---

### DL – Dilution

**H – High Bias**

#### I – Indeterminate Bias

J – Estimated

RL – Reporting Limit

TB – Trip Blank

### U – Non-detect

### VOCs – Volatile Organic Compounds

**Table 3: Field Duplicate Outliers and Resultant Data Qualification**

Table 3: Field Duplicate Outliers and Resultant Data Qualification					
Field Sample/ Field Duplicate	Analyte	Sample Result (µg/L)	FD Result (µg/L)	Criteria not Met	Qualification
<b>VOCs</b>					
5P-MW101-158/ 5P-MW101-158-Y	Tetrachloroethene	29	41	RPD >30%	The associated sample results were qualified as estimated (J FD-I).

$\mu\text{g/L}$  = Micrograms per Liter

% – Percent

$\geq$  = Greater Than

$\mu\text{g/L}$  = Micrograms per liter  
FD = Field Duplicate

I = Indeterminate Bias

> = Greater Than  
J = Estimated

FD = Field Duplicate

**Table 4: Tentatively Identified Compounds**

Samples	Analyte	Qualitatively Identified	Qualification
VOCs			
5P-MW107D-200	Isopropyl Alcohol	64%	As the qualitative values were less than 85%, the associated isopropyl alcohol results were qualified as estimated (NJ ID-I).
5P-MW106D-195		64%	
5P-MW106I-145		64%	
5P-MW104-120		72%	
5P-MW103-118		78%	
5P-MW101-158		56%	
5P-MW109I-169		9%	
5P-MW109D-230		9%	
5P-MW108D-214		39%	
TB-052919		43%	
5P-MW105-143		90%	As the qualitative value was greater than 85%, the associated isopropyl alcohol results were qualified as estimated (J ID-I).
5P-MW101-158-Y		86%	
5P-MW110I-208		86%	
5P-MW110D-301		94%	

% – Percent

J – Estimated

I – Indeterminate Bias

NJ – Tentatively Identified

ID – Identification

**Table 5: Initial/Continuing Calibration Verification Outliers and Resultant Data Qualification**

Associated Samples	Analyte	%D (Limit)	Data Qualification
VOCs			
VSTD005T3 TB-052919 5P-MW107I-145 5P-MW107D-200 5P-MW106D-195 5P-MW106I-145 5P-MW104-120 5P-MW103-118 5P-MW105-143 5P-MW101-158 5P-MW101-158 (DL) 5P-MW101-158-Y 5P-MW101-158-Y (DL) 5P-MW109I-169 5P-MW109D-230 5P-MW108I-149 5P-MW108D-214 5P-MW110I-208 5P-MW110D-301	Acetone	60.8 (±50)	As the potential bias was considered to be high, the associated detected acetone result for sample 5P-MW101-158-Y (DL) was qualified as estimated (J CCV-H).

± - Plus or Minus

J – Estimated

%D – Percent Difference

CCV – Continuing Calibration Verification

H – High Bias

VOC – Volatile Organic Compounds

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-052919

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400001  
 Lab File ID: MQ77C001  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	1.2	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>4 MB-I</u>	6.9	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

*BR 7/23/19*

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-052919

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA):  (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

PSL 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-052919

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400001  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ77C001  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJ ID-I</u>	3.49	1.3	J
02				
03				
04				
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20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

*PL 7/23/19*

FORM 1B-OR

SOM0254 (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107I-145

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y \_\_\_\_\_  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400002  
 Lab File ID: MQ78C002  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.14</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>UMB-I</u>	7.9	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BR 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107I-145

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400002  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ78C002  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>UMB-I</u>	<u>0.50</u> <u>0.28</u>	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

*BR 7/23/19*

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW107I-145

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400002  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ78C002  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
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24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BR 7/23/19

FORM 1B-OR

SOM02-A 4/10/2016

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-200

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV52919</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1915400003</u>
Sample wt/vol: <u>25.0</u> (g/mL) mL	Lab File ID: <u>MQ79C003</u>
% Solids: _____	Date Received: <u>05/29/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>05/31/2019</u>
Extract Concentrated: (Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: PT
Heated Purge: (Y/N) Y	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L	

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.23</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>UMb-I</u>	13.	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

POC 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-200

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV52919</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1915400003</u>
Sample wt/vol: <u>25.0</u> (g/mL) mL	Lab File ID: <u>MQ79C003</u>
% Solids: _____	Date Received: <u>05/29/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>05/31/2019</u>
Extract Concentrated: (Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: PT
Heated Purge: (Y/N) Y	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L	

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <i>u MB-I</i>	0.50	0.19 JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	<i>o</i> -Xylene	0.50	U
179601-23-1	<i>m,p</i> -Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BL 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW107D-200

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400003  
 Lab File ID: MQ79C003  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJ TB, ID-H</u>	3.49	1.5	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BL 7/23/19

FORM 1B-OR

SOM 2014 01/01/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-195

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y \_\_\_\_\_  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400004  
 Lab File ID: MQ80C004  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT \_\_\_\_\_  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>4 TB-I</u>	<u>0.50</u> <u>0.22</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I</u>	10.	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BR 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-195

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV52919</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1915400004</u>
Sample wt/vol: <u>25.0</u> (g/mL) mL	Lab File ID: <u>MQ80C004</u>
% Solids: _____	Date Received: <u>05/29/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>05/31/2019</u>
Extract Concentrated: (Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: <u>PT</u>
Heated Purge: (Y/N) <u>Y</u>	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): <u>ug/L</u>	

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.86	B
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Bar 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106D-195

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N)  
 Soil Aliquot (VOA): (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, ug/kg): ug/L  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400004  
 Lab File ID: MQ80C004  
 Date Received: 05/29/2019  
 Date Extracted:  
 Date Analyzed: 05/31/2019  
 Extract Volume: (uL)  
 Extraction Type: PT  
 Injection Volume: (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NT TB, ID-H</u>	3.49	0.78	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
17				
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19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

PBL 7/23/19

FORM 1B-OR

SOM02-A (10/2016)  
*200501*

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-145

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400005  
 Lab File ID: MQ81C005  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.24</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>UMB-I</u>	8.4	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BL 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-145

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y \_\_\_\_\_  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400005  
 Lab File ID: MQ81C005  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>4 MB-I</u>	<u>0.50</u> <u>0.24</u>	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

*BR 7/23/19*

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106I-145

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400005  
 Lab File ID: MQ81C005  
 Date Received: 05/29/2019  
 Date Extracted:  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor:

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJTB, ID-H</u>	3.49	0.98	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

*BSL 7/23/19*

FORM 1B-OR

SOM02-A (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW104-120

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400006  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ72C006  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>4 TB-I</u>	<u>0.50-0.17</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>4 MB-I</u>	9.7	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform <u>T SQL-I</u>	0.17	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene <u>T SQL-I</u>	0.083	J
108-87-2	Methylcyclohexane	0.50	U

BR 7/23/19

FORM 1A-OR

SOM02-A (10/2016)

5P-MW104-120

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW104-120

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400006  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ72C006  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	9.5	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BL 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW104-120

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400006  
 Lab File ID: MQ72C006  
 Date Received: 05/29/2019  
 Date Extracted:  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJ TB, ID-H</u>	3.49	0.91	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

POD 7/23/19

FORM 1B-OR

SOM02-A-10/2016

00071

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW103-118

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400007  
 Lab File ID: MQ82C007  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.21</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>UMB-I</u>	11.	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BL 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW103-118

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400007  
 Lab File ID: MQ82C007  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>u MB-I</u>	<u>0.50</u> <u>0.12</u>	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

*BR 7/23/19*

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW103-118

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400007  
 Lab File ID: MQ82C007  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJTb, ID-H</u>	3.49	1.2	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BL 7/23/19

FORM 1B-OR

SOM024 (10/2016)

00052

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW105-143

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400008  
 Lab File ID: MQ83C008  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I</u>	7.1	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform <u>J SQL-I</u>	0.18	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

*BL 7/23/19*

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW105-143

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400008  
 Lab File ID: MQ83C008  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.8	B
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW105-143

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400008  
 Lab File ID: MQ83C008  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01 67-63-0	Isopropyl Alcohol <u>T TB, ID-H</u>	3.49	0.96	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BR 7/23/19

FORM 1B-OR

SOM02 4 (10/2016)  
000051

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400011  
 Lab File ID: MQ73C011  
 Date Received: 05/29/2019  
 Date Extracted:  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor:  
 Q

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.22</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>UMB-I</u>	9.8	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene <u>TSQL-I</u>	0.14	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene <u>DNR</u>	0.40	J
108-87-2	Methylcyclohexane	0.50	U

DNR - Do not report

BL 7/23/19

FORM 1A-OR

SOM024 (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400011  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ73C011  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1, 2-Dichloropropane	0.50	U
75-27-4	Bromodichlormethane	0.50	U
10061-01-5	cis-1, 3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1, 3-Dichloropropene	0.50	U
79-00-5	1, 1, 2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>DNR</u>	30.	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochlormethane	0.50	U
106-93-4	1, 2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	0.50	U
541-73-1	1, 3-Dichlorobenzene	0.50	U
106-46-7	1, 4-Dichlorobenzene	0.50	U
95-50-1	1, 2-Dichlorobenzene	0.50	U
96-12-8	1, 2-Dibromo-3-chloropropane	0.50	U
120-82-1	1, 2, 4-Trichlorobenzene	0.50	U
87-61-6	1, 2, 3-Trichlorobenzene	0.50	U

Br 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-158

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400011  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ73C011  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJ TB, ID-H</u>	3.50	0.85	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

Boz 7/23/19

FORM 1B-OR

SOM024 10/2016  
000025

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158DL

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400011DL  
 Lab File ID: MQ70R011  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 4.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	DNR	2.0 U
74-87-3	Chloromethane		2.0 U
75-01-4	Vinyl chloride		2.0 U
74-83-9	Bromomethane		2.0 U
75-00-3	Chloroethane		2.0 U
75-69-4	Trichlorodifluoromethane		2.0 U
75-35-4	1,1-Dichloroethene		2.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.0 U
67-64-1	Acetone	U MB-I	20 8.3 JDB
75-15-0	Carbon disulfide		2.0 U
79-20-9	Methyl acetate		2.0 U
75-09-2	Methylene chloride		2.0 U
156-60-5	trans-1,2-Dichloroethene		2.0 U
1634-04-4	Methyl tert-butyl ether		2.0 U
75-34-3	1,1-Dichloroethane		2.0 U
156-59-2	cis-1,2-Dichloroethene		2.0 U
78-93-3	2-Butanone		20. U
74-97-5	Bromoform		2.0 U
67-66-3	Chloroform		2.0 U
71-55-6	1,1,1-Trichloroethane		2.0 U
110-82-7	Cyclohexane		2.0 U
56-23-5	Carbon tetrachloride		2.0 U
71-43-2	Benzene		2.0 U
107-06-2	1,2-Dichloroethane	11	2.0 U
79-01-6	Trichloroethene	T SQL-I	0.41 JD
108-87-2	Methylcyclohexane	DNR	2.0 U

BR 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158DL

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400011DL  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ70R011  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 4.0  
 Cleanup Types: Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	DNR	2.0 U
75-27-4	Bromodichloromethane		2.0 U
10061-01-5	cis-1,3-Dichloropropene		2.0 U
108-10-1	4-Methyl-2-Pentanone		20. U
108-88-3	Toluene		2.0 U
10061-02-6	trans-1,3-Dichloropropene		2.0 U
79-00-5	1,1,2-Trichloroethane	↓	2.0 U
127-18-4	Tetrachloroethene JFD-I		29. D
591-78-6	2-Hexanone	DNR	20. U
124-48-1	Dibromochloromethane		2.0 U
106-93-4	1,2-Dibromoethane		2.0 U
108-90-7	Chlorobenzene		2.0 U
100-41-4	Ethylbenzene		2.0 U
95-47-6	o-Xylene		2.0 U
179601-23-1	m,p-Xylene		2.0 U
100-42-5	Styrene		2.0 U
75-25-2	Bromoform		2.0 U
98-82-8	Isopropylbenzene		2.0 U
79-34-5	1,1,2,2-Tetrachloroethane		2.0 U
541-73-1	1,3-Dichlorobenzene		2.0 U
106-46-7	1,4-Dichlorobenzene		2.0 U
95-50-1	1,2-Dichlorobenzene		2.0 U
96-12-8	1,2-Dibromo-3-chloropropane		2.0 U
120-82-1	1,2,4-Trichlorobenzene		2.0 U
87-61-6	1,2,3-Trichlorobenzene	↓	2.0 U

PL 7/23/19

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FORM 1A-OR

SOM03-A (10/2016)

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-158DL

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV52919</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1915400011DL</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>MQ70R011</u>
% Solids: _____	Date Received: <u>05/29/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated: (Y/N) _____	Date Analyzed: <u>05/31/2019</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge: (Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>4.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BL 7/23/19

FORM 1B-OR

SOM024 (10/2016)

00038

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158-Y

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400012  
 Lab File ID: MQ74C012  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>4 TB-I</u>	<u>0.50</u> <u>0.13</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I - DNR</u>	<u>8.5</u>	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene <u>J SQL-I</u>	0.13	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene <u>- DNR</u>	0.39	J
108-87-2	Methylcyclohexane	0.50	U

BL 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158-Y

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400012  
 Lab File ID: MQ74C012  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene - DNR	30.	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-158-Y

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400012  
 Lab File ID: MQ74C012  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01	67-63-0	Isopropyl Alcohol <i>JTB, ID-H</i>	3.49	0.90	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30	E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

*BR 7/23/19*

FORM 1B-OR

SOM024 (10/2016)  
*000000*

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158-YDL

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400012DL  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ71R012  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 4.0  
 Cleanup Types: Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	DNR	2.0 U
74-87-3	Chloromethane		2.0 U
75-01-4	Vinyl chloride		2.0 U
74-83-9	Bromomethane		2.0 U
75-00-3	Chloroethane		2.0 U
75-69-4	Trichlorofluoromethane		2.0 U
75-35-4	1,1-Dichloroethene		2.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	DNR	2.0 U
67-64-1	Acetone <i>J CCV, SQL-H</i>		18. JDB
75-15-0	Carbon disulfide	DNR	2.0 U
79-20-9	Methyl acetate		2.0 U
75-09-2	Methylene chloride		2.0 U
156-60-5	trans 1,2-Dichloroethene		2.0 U
1634-04-4	Methyl tert-butyl ether		2.0 U
75-34-3	1,1-Dichloroethane		2.0 U
156-59-2	cis 1,2-Dichloroethene		2.0 U
78-93-3	2-Butanone		20. U
74-97-5	Bromo-chloromethane		2.0 U
67-66-3	Chloroform		2.0 U
71-55-6	1,1,1-Trichloroethane		2.0 U
110-82-7	Cyclohexane	X	2.0 U
56-23-5	Carbon tetrachloride		2.0 U
71-43-2	Benzene		2.0 U
107-06-2	1,2-Dichloroethane		2.0 U
79-01-6	Trichloroethene <i>J SQL-I</i>		0.50 JD
108-87-2	Methylcyclohexane	DNR	2.0 U

PCR 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-158-YDL

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV52919</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1915400012DL</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>MQ71R012</u>
% Solids: _____	Date Received: <u>05/29/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>05/31/2019</u>
Extract Concentrated: (Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: <u>PT</u>
Heated Purge: (Y/N) <u>Y</u>	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>4.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): <u>ug/L</u>	

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane <u>DNP</u>	2.0	U
75-27-4	Bromodichloromethane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
100-10-1	4-Methyl-2-Pentanone	20.	U
108-88-3	Toluene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
127-18-4	Tetrachloroethene <u>J FD-I</u>	41.	D
591-78-6	2-Hexanone <u>DNP</u>	20.	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
108-90-7	Chlorobenzene	2.0	U
100-41-4	Ethylbenzene	2.0	U
95-47-6	<i>o</i> -Xylene	2.0	U
179601-23-1	<i>m,p</i> -Xylene	2.0	U
100-42-5	Styrene	2.0	U
75-25-2	Bromoform	2.0	U
98-82-8	Isopropylbenzene	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2.0	U

BR 7/23/19

KA 8/6/19

FORM 1A-OR

SOM02-4 (10/2016)  
50053

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-158-YDL

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400012DL  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ71R012  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 4.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

PL 7/23/19

FORM 1B-OR

SOM024 (10/2016)  
~~00054~~

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109I-169

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400013  
 Lab File ID: MQ86C013  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>UTB-I</u>	<u>0.50</u> <u>0.21</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>4 MB-I</u>	7.3	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW109I-169

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA):  (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400013  
 Lab File ID: MQ86C013  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.0	B
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW109I-169

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400013  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ86C013  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <i>NT TB, ID-H</i>	3.49	0.53	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

*BR 7/23/19*

FORM 1B-OR

SOM 924 5/1/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-230

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400014  
 Lab File ID: MQ87C014  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>U TB-I</u>	<u>0.50</u> <u>0.22</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorodifluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I</u>	6.6	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

*BR 7/23/19*

FORM 1A-OR

SOM0274 (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-230

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400014  
 Lab File ID: MQ87C014  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>U MB-I</u>	<u>0.50</u> <u>0.10</u>	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BL 7/23/19

FORM 1A-OR

SOM024 (10/2016)

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW109D-230

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L  
 Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400014  
 Lab File ID: MQ87C014  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJ TB, ID-H</u>	3.49	0.62	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
	<u>E966796<sup>1</sup></u> Total Alkanes		N/A	

<sup>1</sup>EPA-designated Registry Number.

BR 7/23/19

FORM 1B-OR

SOM024 (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-149

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400015  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ88C015  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>U TB-I</u>	<u>0.50</u> <u>0.22</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I</u>	8.1	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BL 7/23/19

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-149

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400015  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ88C015  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.51	B
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108I-149

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400015  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ88C015  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

BL 7/23/19

FORM 1B-OR

SOM 02 4 519/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108D-214

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids: \_\_\_\_\_  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400016  
 Lab File ID: MQ89C016  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>4 TB-I</u>	<u>0.50</u> <u>0.19</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>4 MB-I</u>	11.	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR

SOME 24 150/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108D-214

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA):  (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400016  
 Lab File ID: MQ89C016  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.0	B
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108D-214

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400016  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ89C016  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol <u>NJTBIID-H</u>	3.49	1.4	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

PCR 7/23/19

FORM 1B-OR

SOMA 2014 (10/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110I-208

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column:  ID:  (mm)  
 Extract Concentrated: (Y/N)   
 Soil Aliquot (VOA):  (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.:  SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400017  
 Lab File ID: MQ90C017  
 Date Received: 05/29/2019  
 Date Extracted:  
 Date Analyzed: 05/31/2019  
 Extract Volume:  (uL)  
 Extraction Type: PT  
 Injection Volume:  (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor:

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>U TB-I</u>	<u>0.50</u> <u>0.13</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>U MB-I</u>	7.6	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

*BR 7/23/19*

FORM 1A-OR

SOM024 (10/2016)  
*00137*

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW110I-208

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400017  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ90C017  
 % Solids: Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW110I-208

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types: \_\_\_\_\_  
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400017  
 Lab File ID: MQ90C017  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01 67-63-0	Isopropyl Alcohol <u>JTB, ID-H</u>	3.49	0.65	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

PL 7/23/19

FORM 1B-OR

SOM 021 1509/2016)

FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-301

Lab Name: ALS Environmental (SLC)  
 Lab Code: ALS Case No.: 5POINTS  
 Analytical Method: Trace VOA  
 Matrix: WATER  
 Sample wt/vol: 25.0 (g/mL) mL  
 % Solids:  
 GC Column: RTX-VMS ID: 0.25 (mm)  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm)  
 Extract Concentrated: (Y/N) \_\_\_\_\_  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y  
 Purge Volume: 25.0 (mL)  
 Cleanup Types:  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

Contract: 97756  
 MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Level: TRACE  
 Lab Sample ID: 1915400018  
 Lab File ID: MQ91C018  
 Date Received: 05/29/2019  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: 05/31/2019  
 Extract Volume: \_\_\_\_\_ (uL)  
 Extraction Type: PT  
 Injection Volume: \_\_\_\_\_ (uL)  
 pH: 1.0 Dilution Factor: 1.0  
 Cleanup Factor: \_\_\_\_\_

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane <u>u TB-I</u>	<u>0.50</u> <u>0.19</u>	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone <u>u MB-I</u>	11.	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR  
ORGANIC ANALYSIS DATA SHEET  
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-301

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400018  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ91C018  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 GC Column: \_\_\_\_\_ ID: \_\_\_\_\_ (mm) Date Analyzed: 05/31/2019  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Extract Volume: \_\_\_\_\_ (uL)  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extraction Type: PT  
 Heated Purge: (Y/N) Y Injection Volume: \_\_\_\_\_ (uL)  
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0  
 Cleanup Types: \_\_\_\_\_ Cleanup Factor: \_\_\_\_\_  
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene <u>UMB-I</u>	<u>0.50</u> <u>0.24</u>	JB
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 7/23/19

FORM 1B-OR  
ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW110D-301

Lab Name: ALS Environmental (SLC) Contract: 97756  
 Lab Code: ALS Case No.: 5POINTS MA No.: \_\_\_\_\_ SDG No.: TV52919  
 Analytical Method: Trace VOA Level: TRACE  
 Matrix: WATER Lab Sample ID: 1915400018  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MQ91C018  
 % Solids: \_\_\_\_\_ Date Received: 05/29/2019  
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: \_\_\_\_\_  
 Extract Concentrated: (Y/N) \_\_\_\_\_ Date Analyzed: 05/31/2019  
 Soil Aliquot (VOA): \_\_\_\_\_ (uL) Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) Y Extraction Type: PT  
 Purge Volume: 25.0 (mL) Injection Volume: \_\_\_\_\_ (uL)  
 Cleanup Types: \_\_\_\_\_ pH: 1.0 Dilution Factor: 1.0  
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: \_\_\_\_\_

CAS No.	ANALYTE	RT	EST. CONC.	Q
01 67-63-0	Isopropyl Alcohol <u>J TB, ID-H</u>	3.49	1.5	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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29				
30				
E966796 <sup>1</sup>	Total Alkanes	N/A		

<sup>1</sup>EPA-designated Registry Number.

PL 7/23/19

FORM 1B-OR

SOM02-4 (10/2016)

**Attachment 4**

**Monitoring Well and Water Level/PCE  
Information and Hydrographs**

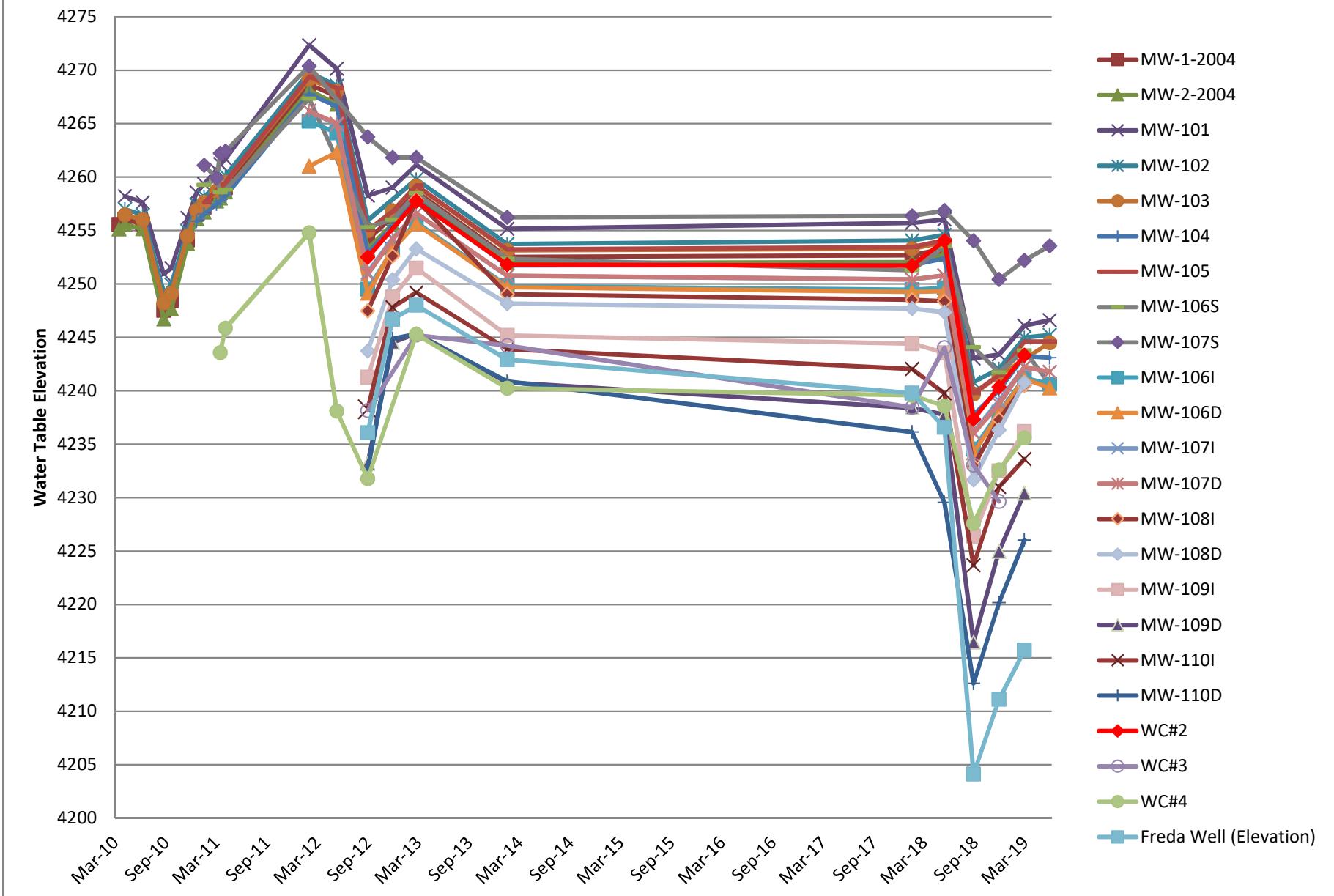
**Attachment 4 - Well Hydrographs**  
**Five Points PCE Plume Site**  
**PCE Concentrations and Water Table Elevations**

DTW	Sample	MW 1-2004			MW 2-2004			MW-101			MW-102			MW-103			
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)
3/16/2010	NA	100.65	4255.55	NA	103.53	4255.13	NA										
4/6/2010	4/6/2010	100.17	4256.03	2.6	103.1	4255.56	0.31	143.32	4258.21	7	106.89	4257.01	0	103.5	4256.47	0	
6/9/2010	NA	100.58	4255.62	NA	103.49	4255.17	NA	143.88	4257.65	NA	107.45	4256.45	NA	103.95	4256.02	NA	
8/24/2010	NA	108.68	4247.52	NA	111.95	4246.71	NA	150.61	4250.92	NA	114.76	4249.14	NA	111.74	4248.23	NA	
9/20/2010	9/20/2010	107.8	4248.40	9.3	111	4247.66	0.73	150.05	4251.48	37	113.96	4249.94	0	110.85	4249.12	0.13	
11/18/2010	NA	102.1	4254.10	NA	104.91	4253.75	NA	145.36	4256.17	NA	108.95	4254.95	NA	105.5	4254.47	NA	
12/21/2010	NA	99.68	4256.52	NA	102.56	4256.10	NA	142.97	4258.56	NA	106.49	4257.41	NA	103.08	4256.89	NA	
1/17/2011	1/27/2011	99.04	4257.16	3.6	101.95	4256.71	0.32	142.17	4259.36	31	105.73	4258.17	NA	102.36	4257.61	0.18	
3/3/2011	NA	97.98	4258.22	NA	100.92	4257.74	NA	140.89	4260.64	NA	104.66	4259.24	NA	101.28	4258.69	NA	
3/16/2011	NA	97.65	4258.55	NA	100.63	4258.03	NA	140.3	4261.23	NA	104.25	4259.65	NA	100.91	4259.06	NA	
4/4/2011	NA	97.2	4259.00	NA	100.05	4258.61	NA	139.82	4261.71	NA	103.75	4260.15	NA	100.46	4259.51	NA	
1/31/2012	2/2/2012	87.52	4268.68	39	90.54	4268.12	0.92	129.18	4272.35	12	94.1	4269.80	NA	90.8	4269.17	0.19	
5/10/2012	5/15/2012	88.64	4267.56	13	91.85	4266.81	1.5	131.38	4270.15	8	95.35	4268.55	NA	91.93	4268.04	0.19	
8/30/2012	8/30/2012	102.04	4254.16	46	105.36	4253.30	1.4	143.28	4258.25	1.4	107.95	4255.95	NA	104.98	4254.99	0.35	
11/28/2012	11/28/2012	99.91	4256.29	22	103.05	4255.61	1	142.51	4259.02	2.3	NA	NA	NA	103.12	4256.85	0.15	
2/21/2013	2/26/2013	97.54	4258.66	21	100.56	4258.10	2.2	140.37	4261.16	2.1	104.11	4259.79	NA	100.81	4259.16	0	
1/16/2014	1/28/2014	103.68	4252.52	9.5	106.7	4251.96	0.25	146.37	4255.16	14	110.17	4253.73	NA	106.84	4253.13	0.14	
1/17/2018	2/16/2018	103.52	4252.68	3.7	106.61	4252.05	0.19	145.81	4255.72	13	109.84	4254.06	NA	106.68	4253.29	0.17	
5/14/2018	5/16/2018	102.88	4253.32	1.4	105.93	4252.73	0.17	145.48	4256.05	27	109.32	4254.58	NA	106.07	4253.90	0.17	
8/27/2018	8/29/2018	NA	NA	NA	NA	NA	NA	158.5	4243.03	23	123.1	4240.80	NA	120.27	4239.70	<0.50	
11/27/2018	11/29/2018	NA	NA	NA	NA	NA	NA	158.12	4243.41	21	121.84	4242.06	NA	118.57	4241.40	0.19 J	
2/25/2019	2/27/2019	NA	NA	NA	NA	NA	NA	155.43	4246.10	29	118.92	4244.98	NA	NM	NM	NS	
5/24/2019	5/29/2019	NA	NA	NA	NA	NA	NA	154.93	4246.60	41 J	118.68	4245.22	NA	115.47	4244.50	<0.50	
DTW	Sample	MW-104			MW-105			MW-106S			MW-106I			MW-106D			
Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/21/2010	NA	83.61	4255.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/17/2011	1/27/2011	82.92	4256.55	19	127.06	4257.63	0.9	45.91	4259.27	0	NA	NA	NA	NA	NA	NA	
3/3/2011	NA	82	4257.47	NA	125.92	4258.77	NA	45.41	4259.77	NA							
3/16/2011	NA	81.72	4257.75	NA	125.56	4259.13	NA	46.6	4258.58	NA							
4/4/2011	NA	81.23	4258.24	NA	125.15	4259.54	NA	46.36	4258.82	NA							
1/31/2012	2/2/2012	71.7	4267.77	26	115.3	4269.39	0.76	37.84	4267.34	0	39.94	4265.22	9.6	44.16	4261.01	1.0	
5/10/2012	5/15/2012	72.85	4266.62	14	116.37	4268.32	0.26	NA	NA	NA	41.02	4264.14	7.8	42.85	4262.32	1.2	
8/30/2012	8/30/2012	86.59	4252.88	18	129.67	4255.02	0.18	49.89	4255.29	NA	55.67	4249.49	8.4	56.05	4249.12	2.2	
11/28/2012	11/28/2012	84.02	4255.45	14	127.91	4256.78	0.18	49.16	4256.02	NA	51.94	4253.22	4.6	51.9	4253.27	2.1	
2/21/2013	2/26/2013	81.6	4257.87	21	125.48	4259.21	0.16	46.7	4258.48	NA	49.39	4255.77	6.7	49.55	4255.62	2.7	
1/16/2014	1/28/2014	87.73	4251.74	18	131.46	4253.23	0.36	52.84	4252.34	NA	55.36	4249.80	7.3	55.48			

**Attachment 4 - Well Hydrographs**  
**Five Points PCE Plume Site**  
**PCE Concentrations and Water Table Elevations**

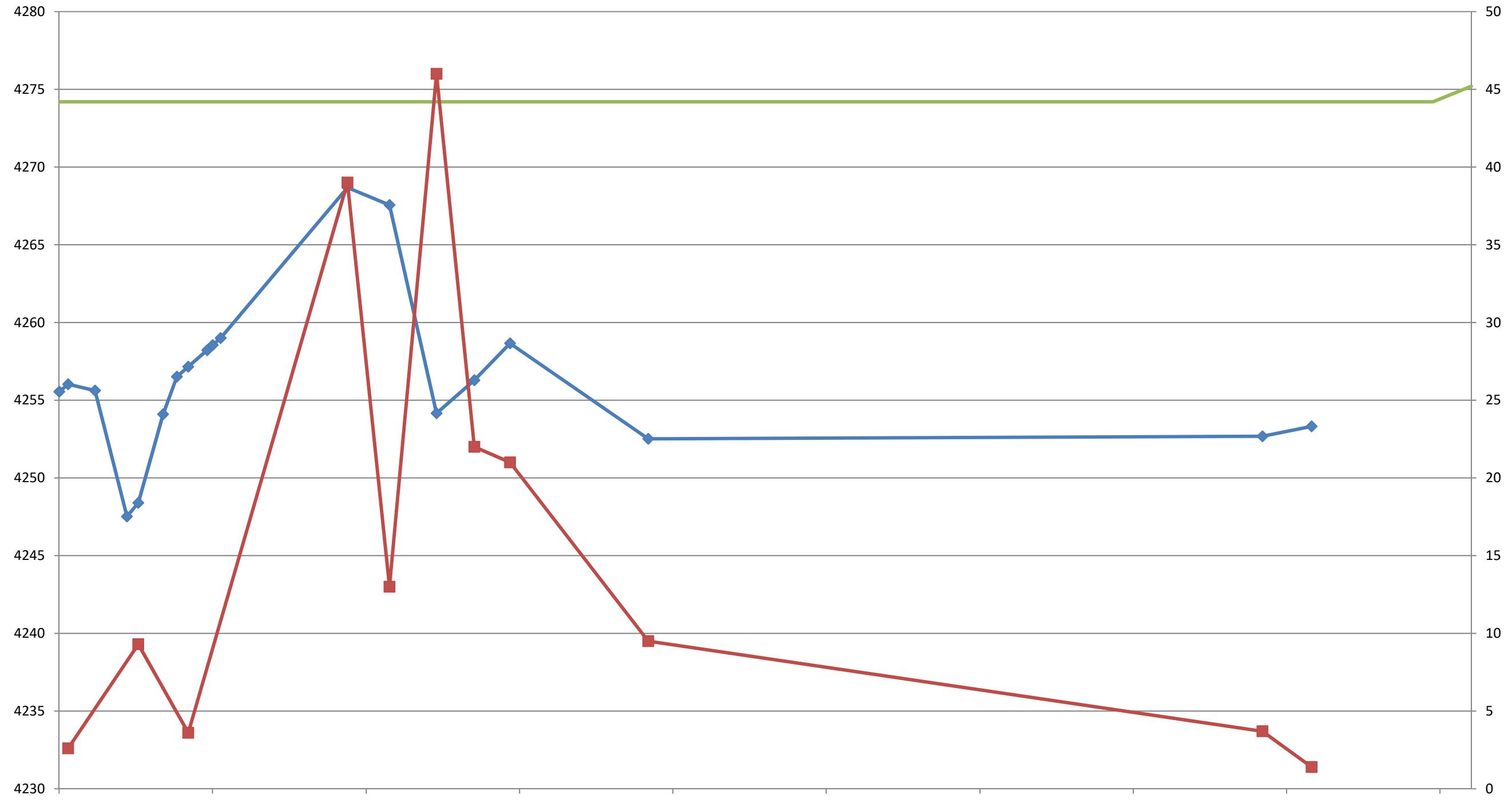
DTW	Sample	MW-107S			MW-107I			MW-107D			MW-108I			MW-108D			
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/6/2010	4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/20/2010	9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/21/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/17/2011	1/27/2011	46.16	4261.11	0	NA												
3/3/2011	NA	47.38	4259.89	NA													
3/16/2011	NA	45.04	4262.23	NA													
4/4/2011	NA	44.86	4262.41	NA													
1/31/2012	2/2/2012	36.89	4270.38	0	40.70	4266.19	1.2	40.76	4266.19	1.4	NA						
5/10/2012	5/15/2012	NA	NA	NA	42.00	4264.89	1	41.94	4265.01	1.3	NA						
8/30/2012	8/30/2012	43.50	4263.77	NA	55.82	4251.07	1.1	56.04	4250.91	1.7	36.99	4247.47	1.00	40.74	4243.73	7.2	
11/28/2012	11/28/2012	45.45	4261.82	NA	52.60	4254.29	1.2	52.81	4254.14	1.5	31.85	4252.61	0.71	34.08	4250.39	4.7	
2/21/2013	2/26/2013	45.44	4261.83	NA	50.28	4256.61	1.2	50.34	4256.61	2.3	26.6	4257.86	0.88	31.19	4253.28	6.5	
1/16/2014	1/28/2014	51.03	4256.24	NA	56.15	4250.74	1.3	56.17	4250.78	1.7	35.42	4249.04	0.93	36.31	4248.16	5.9	
1/17/2018	2/16/2018	50.90	4256.37	NA	56.48	4250.41	0.5	56.54	4250.41	2.0	35.95	4248.51	0.35	36.76	4247.71	3.0	
5/14/2018	5/16/2018	50.39	4256.88	NA	56.10	4250.79	0.3	56.16	4250.79	0.13	36.09	4248.37	0.33	37.13	4247.34	1.7	
8/27/2018	8/29/2018	53.22	4254.05	NA	70.77	4236.12	0.26	70.93	4236.02	0.29	51.5	4232.96	0.48	52.8	4231.67	3.0	
11/27/2018	11/29/2018	56.85	4250.42	NA	67.82	4239.07	0.16 J	68.21	4238.74	1.2	47.17	4237.29	0.65	48.13	4236.34	3.0	
2/25/2019	2/27/2019	55.08	4252.19	NA	64.68	4242.21	0.35	64.7	4242.25	0.44	43.96	4240.50	0.58	43.71	4240.76	3.2	
5/24/2019	5/29/2019	53.71	4253.56	NA	65.12	4241.77	<0.50	65.2	4241.75	<0.50	44.86	4239.60	0.51	45.94	4238.53	2.0	
DTW	Sample	MW-109I			MW-109D			MW-110I			MW-110D						
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/21/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/17/2011	1/27/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/3/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/16/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/4/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/31/2012	2/2/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/10/2012	5/15/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/30/2012	8/30/2012	43.13	4241.26	0.59	51.23	4233.19	0.26	31.2	4238.26	0.3	36.79	4232.68	2.2				
11/28/2012	11/28/2012	35.62	4248.77	1.2	39.9	4244.52	0.21	21.66	4247.80	0	24.6	4244.87	2.2				
2/21/2013	2/26/2013	32.91	4251.48	1.5	39.06	4245.36	0.6	20.26	4249.20	0.12	24.15	4245.32	2.6				
1/16/2014	1/28/2014	39.21	4245.18	1.0	43.63	4240.79	0.66	25.56	4243.90	0	28.59	4240.88	2.0				
1/17/2018	2/16/2018	39.99	4244.40	0.73	46.02	4238.4	0.98	27.41	4242.05	0	33.34	4236.13	0.67				
5/14/2018	5/16/2018	40.83	4243.56	0.46	46.65	4237.77	0.64	29.7	4239.76	0	39.91	4229.56	0.43				
8/27/2018	8/29/2018	58	4226.39	1.5	67.96	4216.46	0.36	45.78	4223.68	<0.50	56.86	4212.61	0.56				
11/27/2018	11/29/2018	51.9	4232.49	0.57	59.46	4224.96	0.40 J	38.45	4231.01	<0.50	49.3	4220.17	0.39				</td

## Well Hydrographs



**Well Installed  
2004**

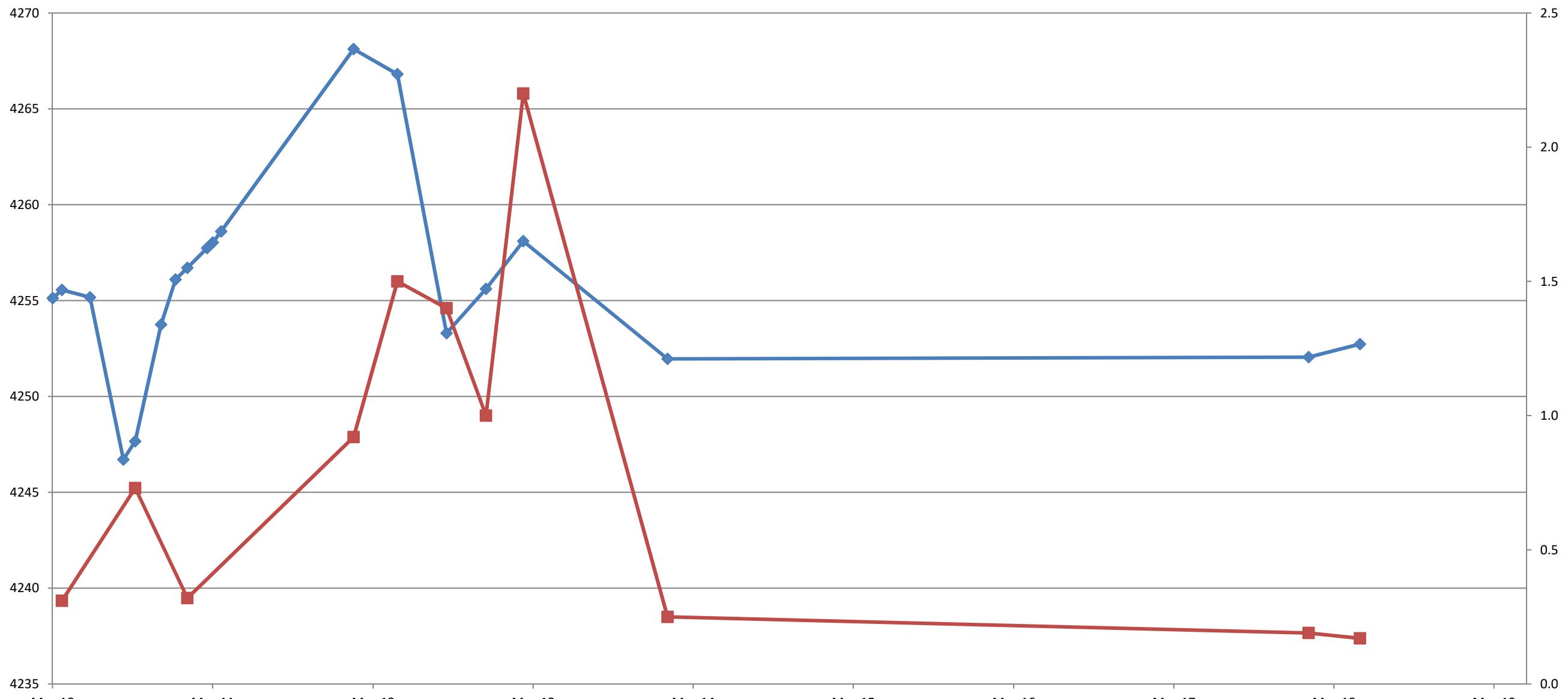
MW 1-2004



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)	4255.55	4256.03	4255.62	4247.52	4248.40	4254.10	4256.52	4257.16	4258.22	4258.55	4259.00	4268.68	4267.56	4254.16	4256.29	4258.66	4252.52	4252.68	4253.32			
Top of Screen (Ft)	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4274.2	4275.2	
PCE Conc. (ug/L)			2.60			9.30		3.60			39.00	13.00	46.00	22.00	21.00	9.50	3.70	1.40				

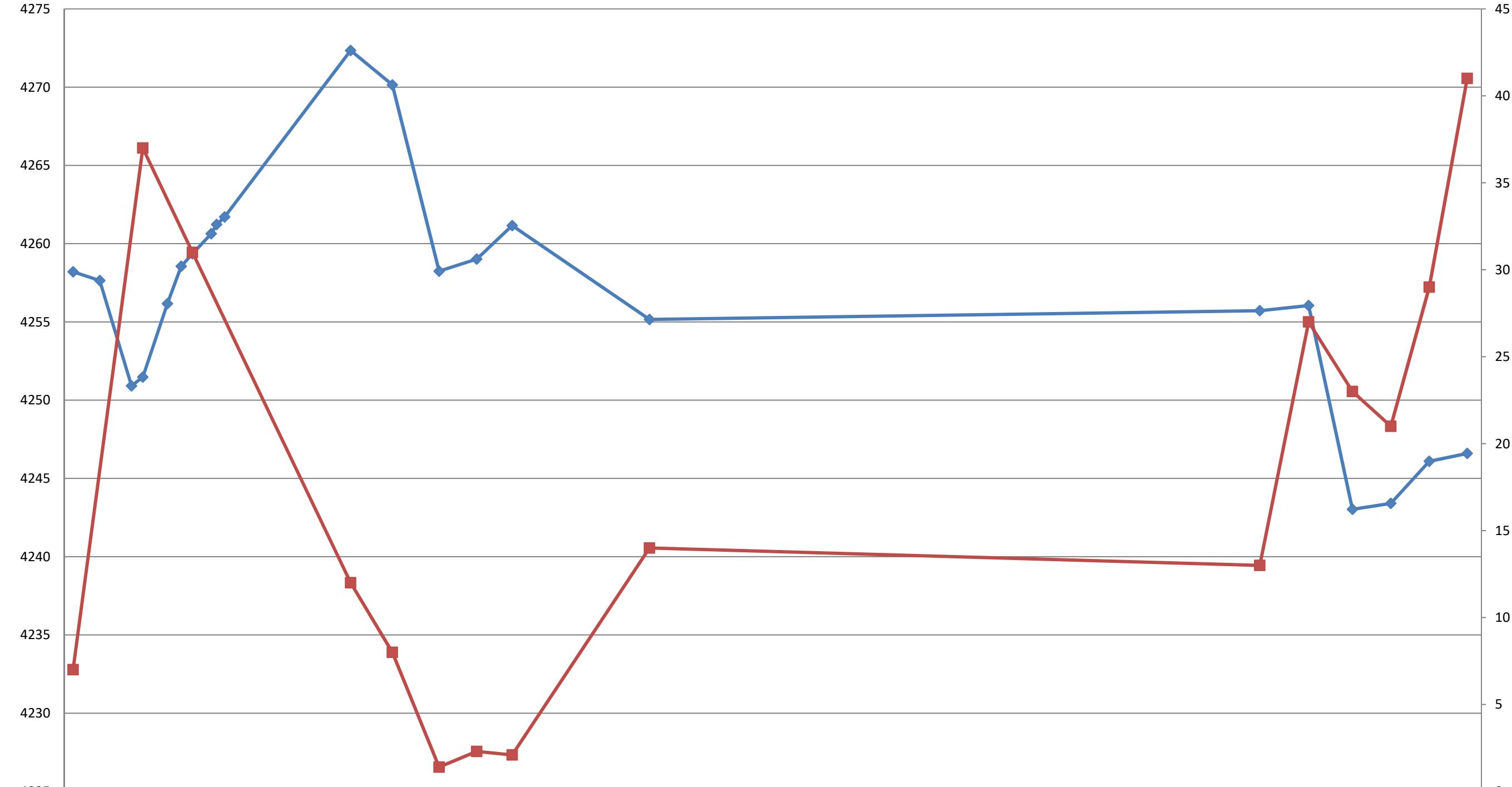
**Well Installed  
2004**

## MW 2-2004



Well Installed  
3/10/2010

## MW-101



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-12	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)		4258.21	4257.65	4250.92	4251.48	4256.17	4258.56	4259.36	4260.64	4261.23	4261.71	4272.35	4270.15	4258.25	4259.02	4261.16	4255.16	4255.72	4256.05	4243.03	4243.41	4246.10	4246.60
PCE Conc. (ug/L)		7			37			31				12	8	1.4	2.3	2.1	14	13	27	23	21	29	41

Well Installed  
3/22/2010

## MW-103

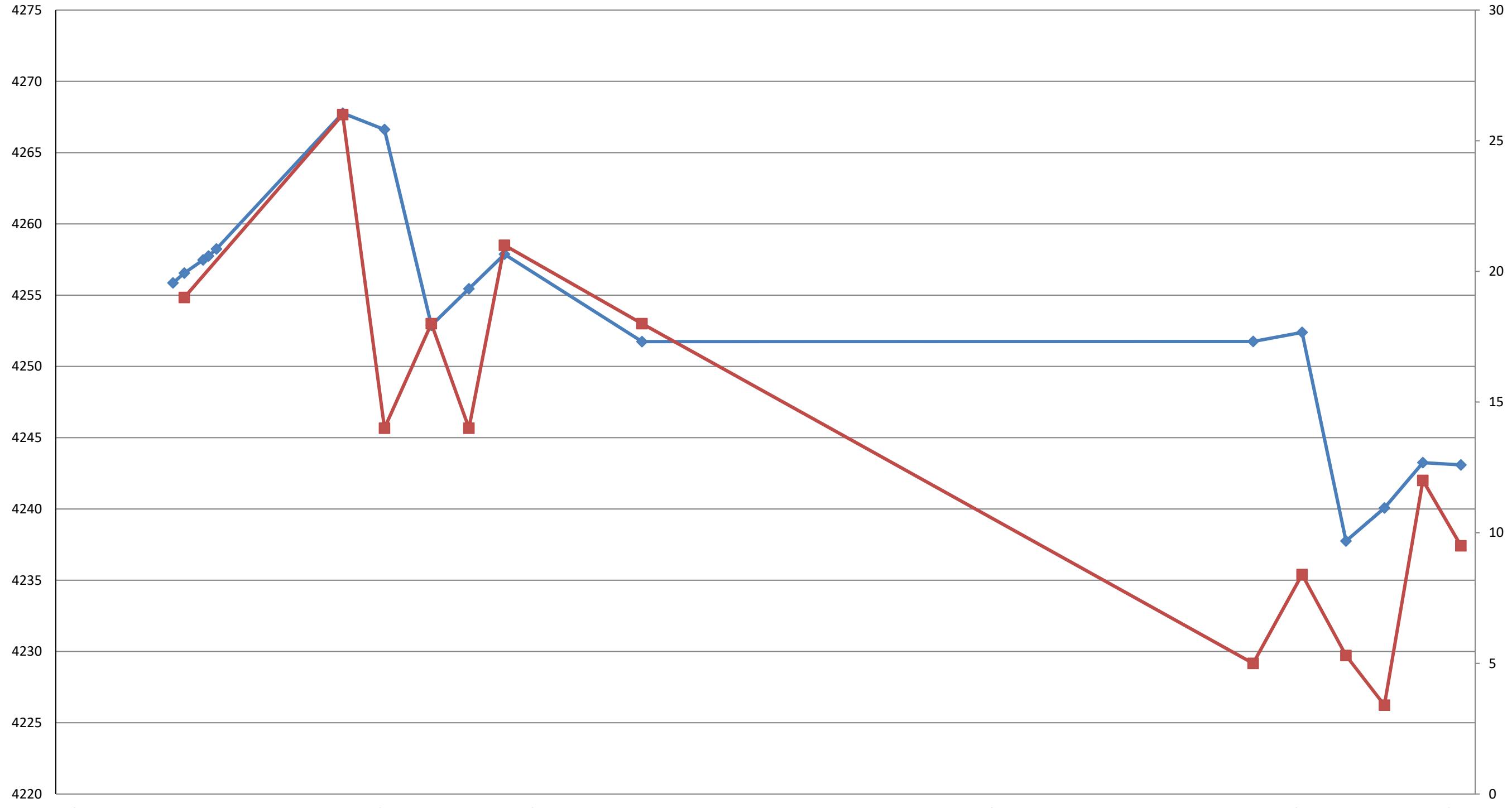


NM - Not measured due to access issues

NS - Not sampled

Well Installed  
12/6/2010

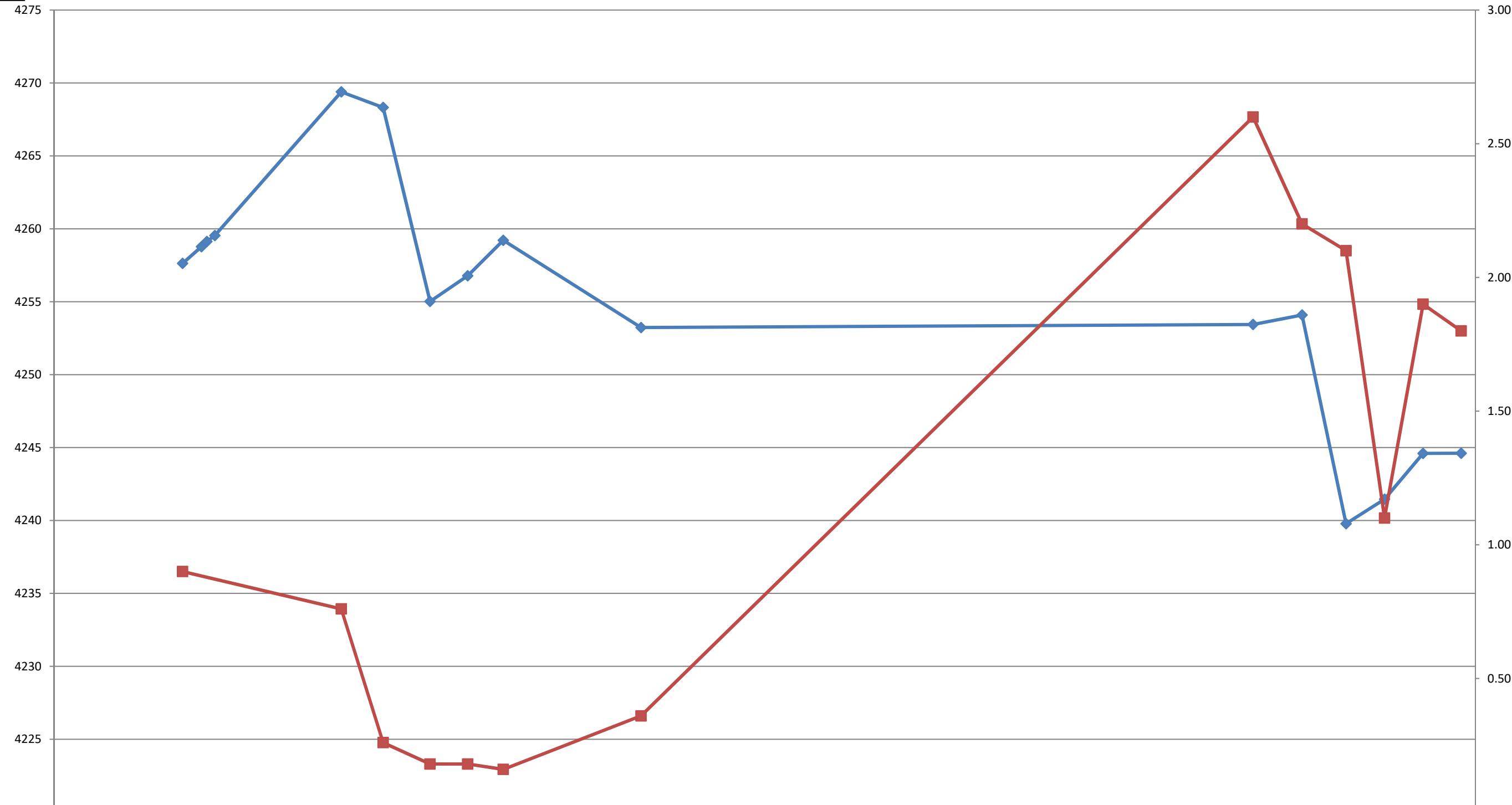
## MW-104



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19	
Water Table Elevation (ft)							4255.86	4256.55	4257.47	4257.75	4258.24	4267.77	4266.62	4252.88	4255.45	4257.87	4251.74	4251.75	4252.39	4237.75	4240.07	4243.25	4243.09	
PCE Conc. (ug/L)								19.00					26.00	14.00	18.00	14.00	21.00	18.00	5.00	8.40	5.30	3.40	12.00	9.50

**Well Installed  
12/2/2010**

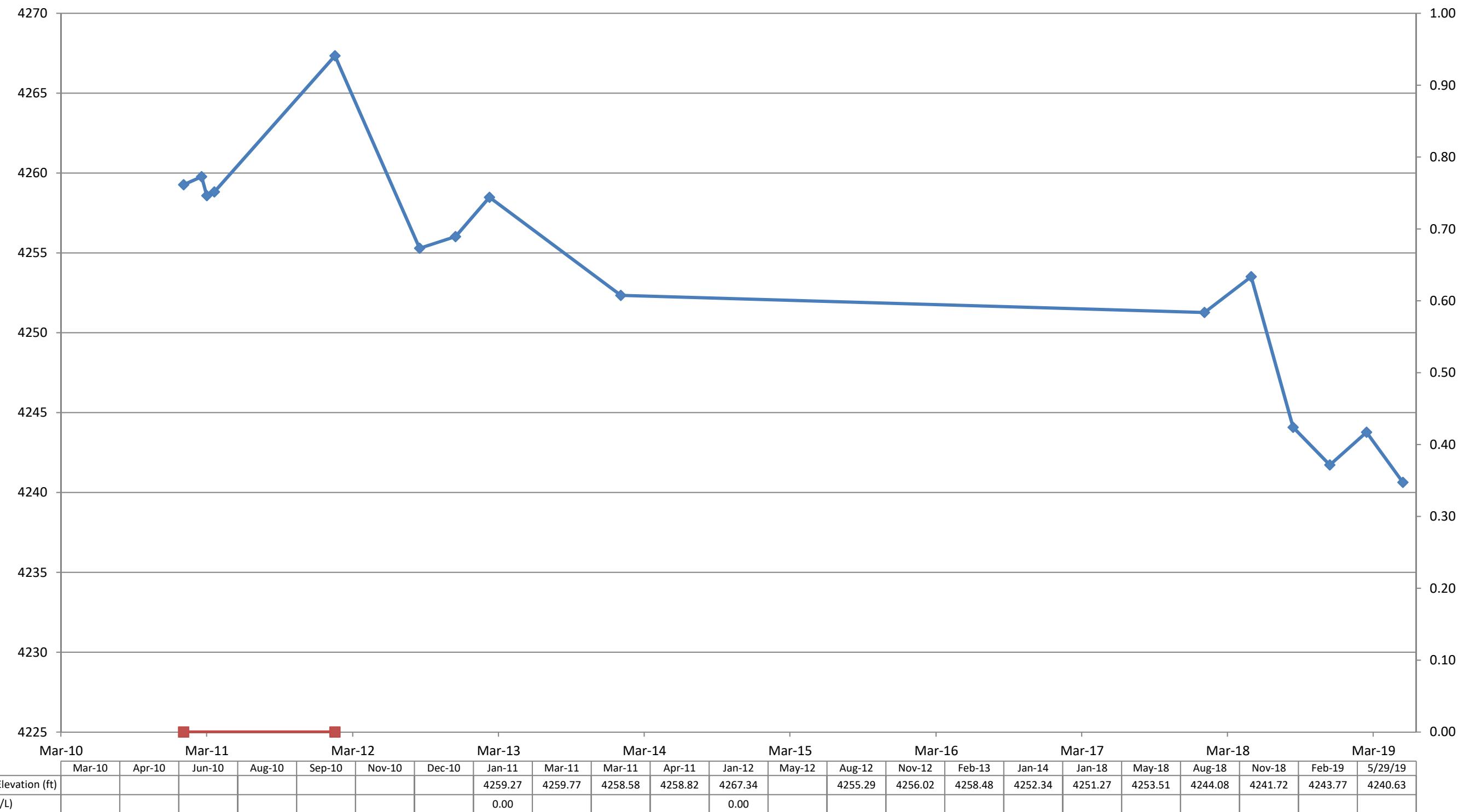
MW-105



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19	
Water Table Elevation (ft)								4257.63	4258.77	4259.13	4259.54	4269.39	4268.32	4255.02	4256.78	4259.21	4253.23	4253.44	4254.09	4239.78	4241.46	4244.60	4244.61
PCE Conc. (ug/L)								0.90				0.76	0.26	0.18	0.18	0.16	0.36	2.60	2.20	2.10	1.10	1.90	1.80

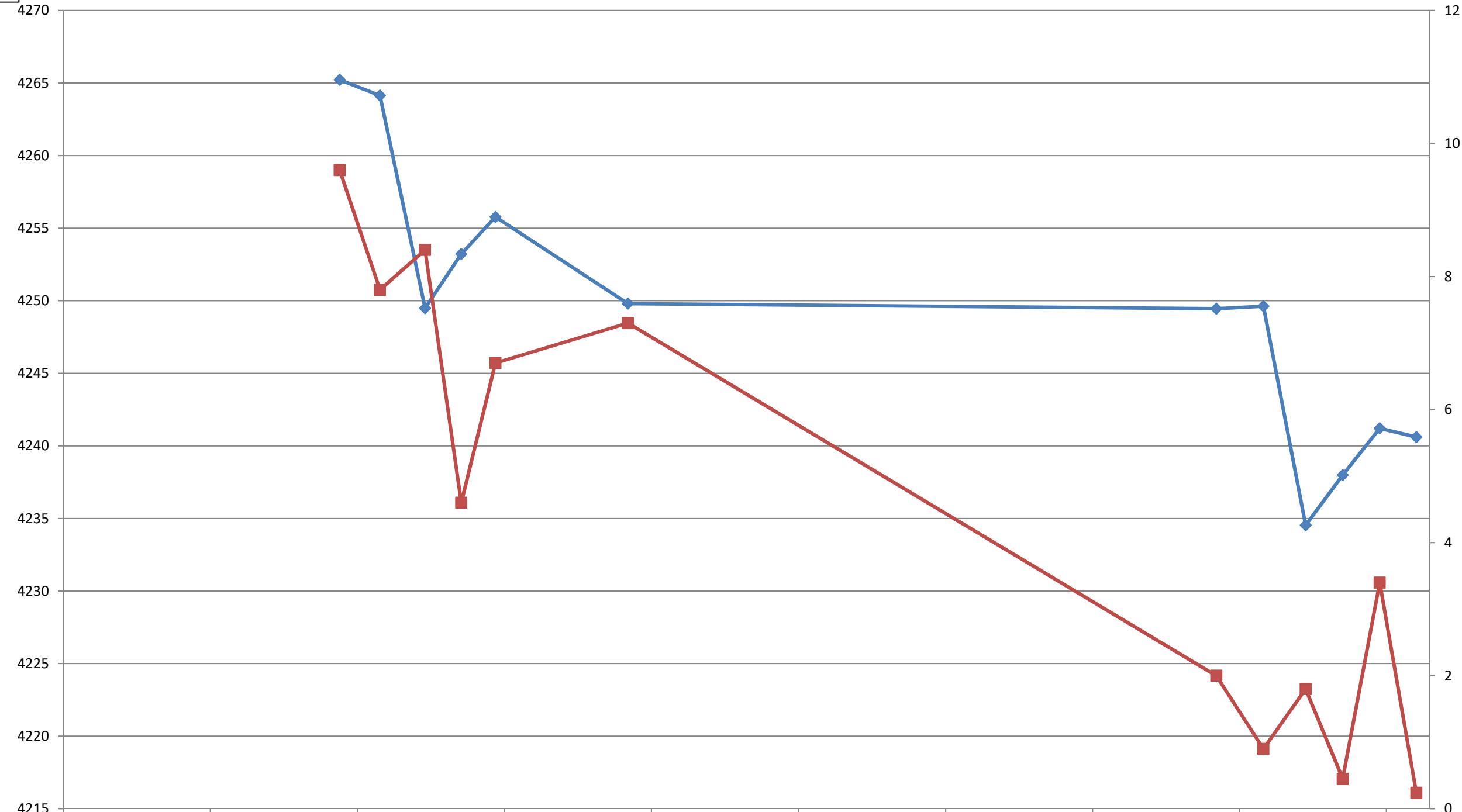
**Well Installed**  
1/5/2011

## MW-106S



Well Installed  
12/22/11

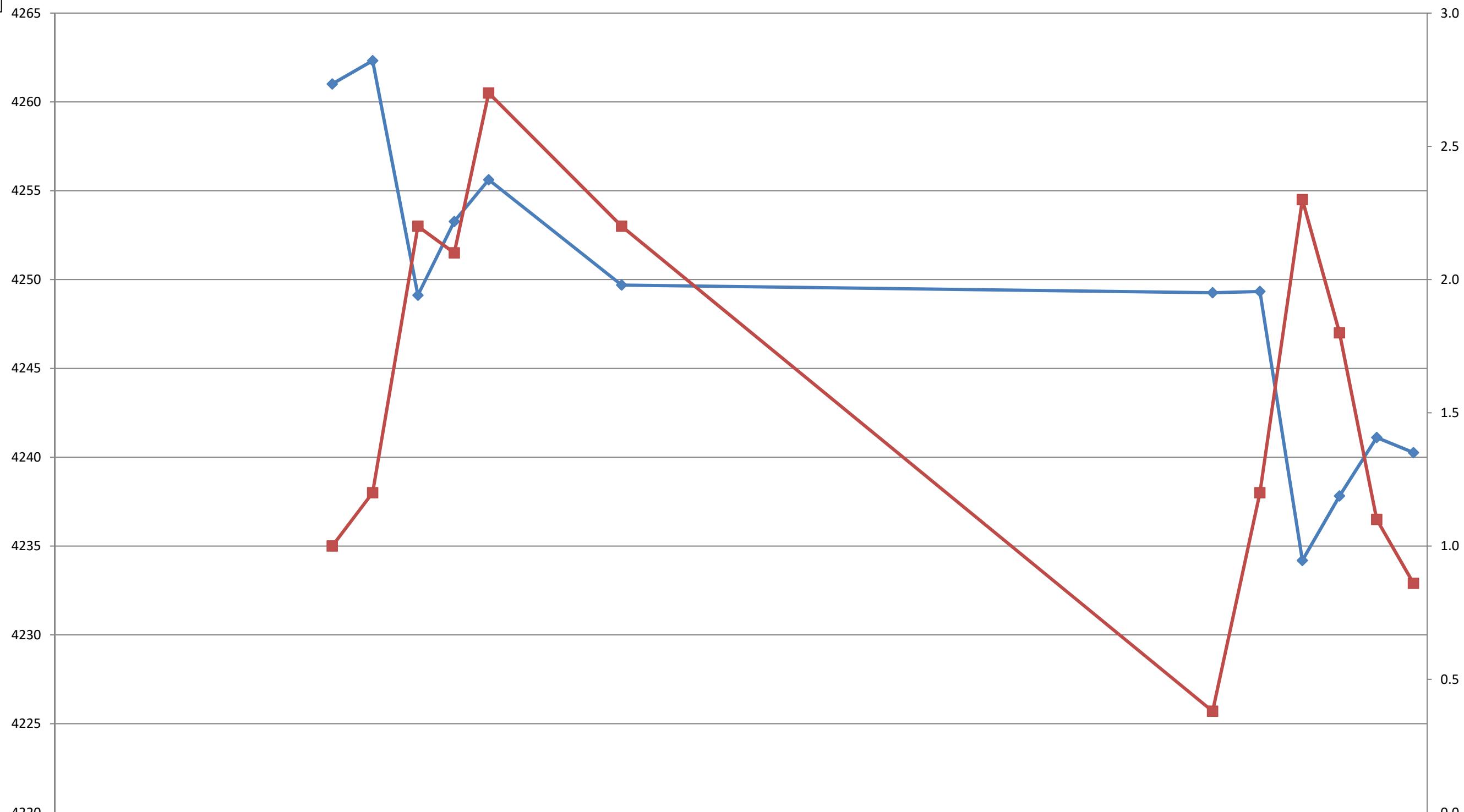
## MW-106I



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)											4265.22	4264.14	4249.49	4253.22	4255.77	4249.80	4249.45	4249.62	4234.53	4237.99	4241.21	4240.61
PCE Conc. (ug/L)											9.60	7.80	8.40	4.60	6.70	7.30	2.00	0.90	1.80	0.45	3.40	0.24

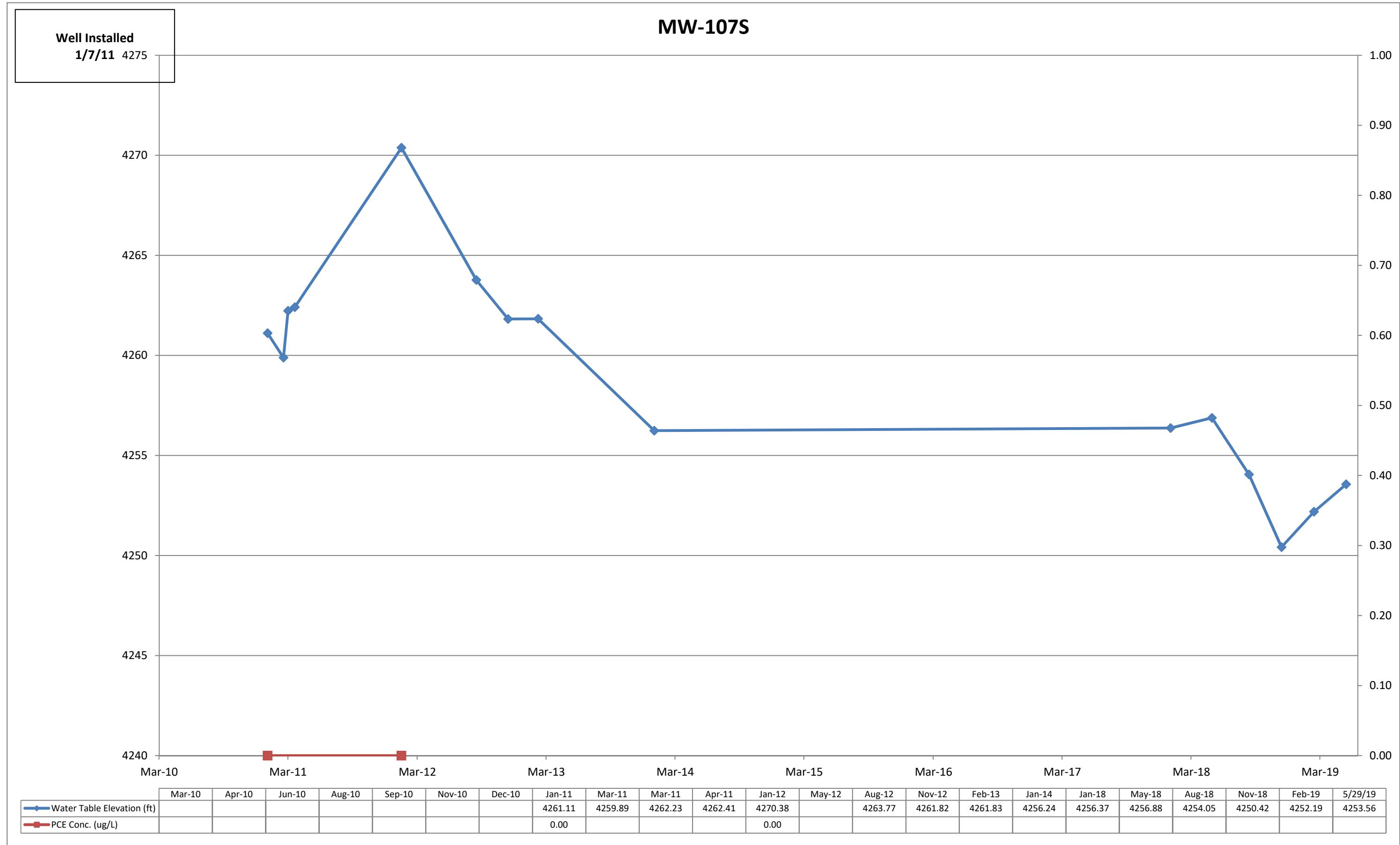
Well Installed  
12/22/11

## MW-106D



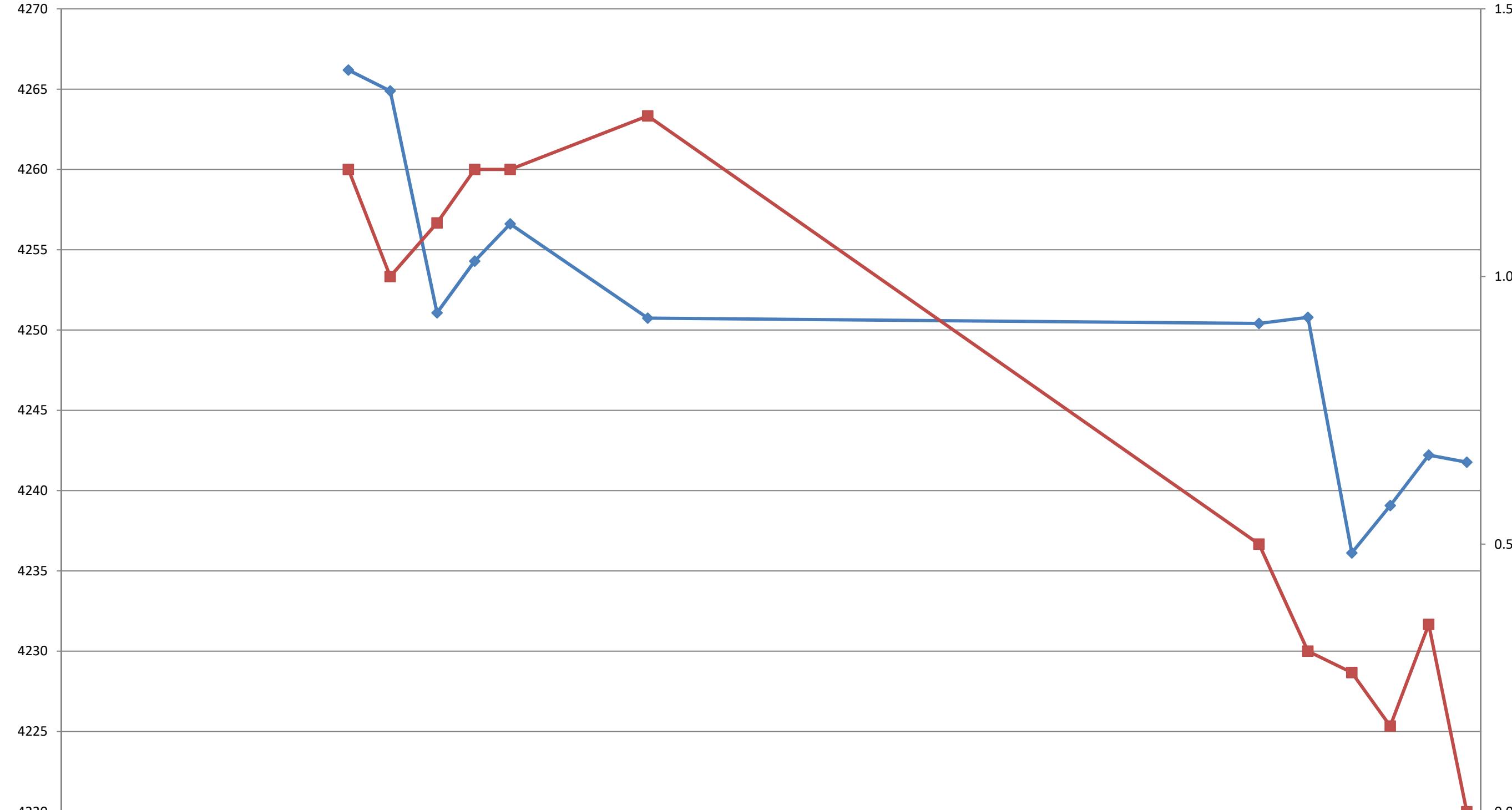
	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)	4261.01	4262.32	4259.00	4259.00	4259.00	4259.00	4249.12	4253.27	4255.62	4249.69	4249.26	4249.33	4234.19	4237.82	4241.11	4240.26							
PCE Conc. (ug/L)	1.00	1.20	2.20	2.20	2.70	2.20	0.38	1.20	0.38	1.20	0.38	1.20	0.38	1.20	2.30	1.80	1.10	0.86					

## MW-107S



Well Installed  
12/9/2011

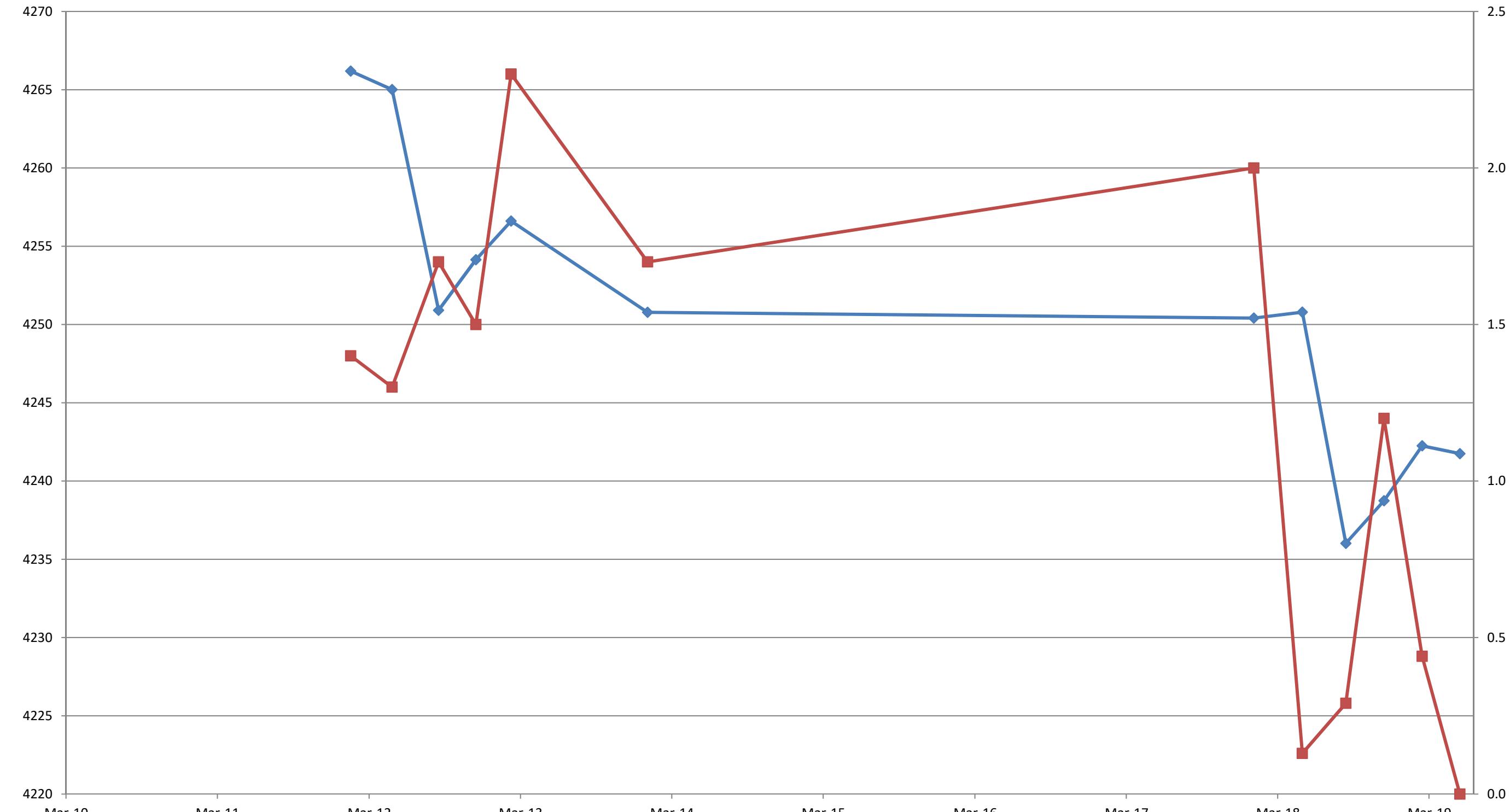
## MW-107I



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)											4266.19	4264.89	4251.07	4254.29	4256.61	4250.74	4250.41	4250.79	4236.12	4239.07	4242.21	4241.77
PCE Conc. (ug/L)											1.20	1.00	1.10	1.20	1.20	1.30	0.50	0.30	0.26	0.16	0.35	0.00

Well Installed  
12/9/2011

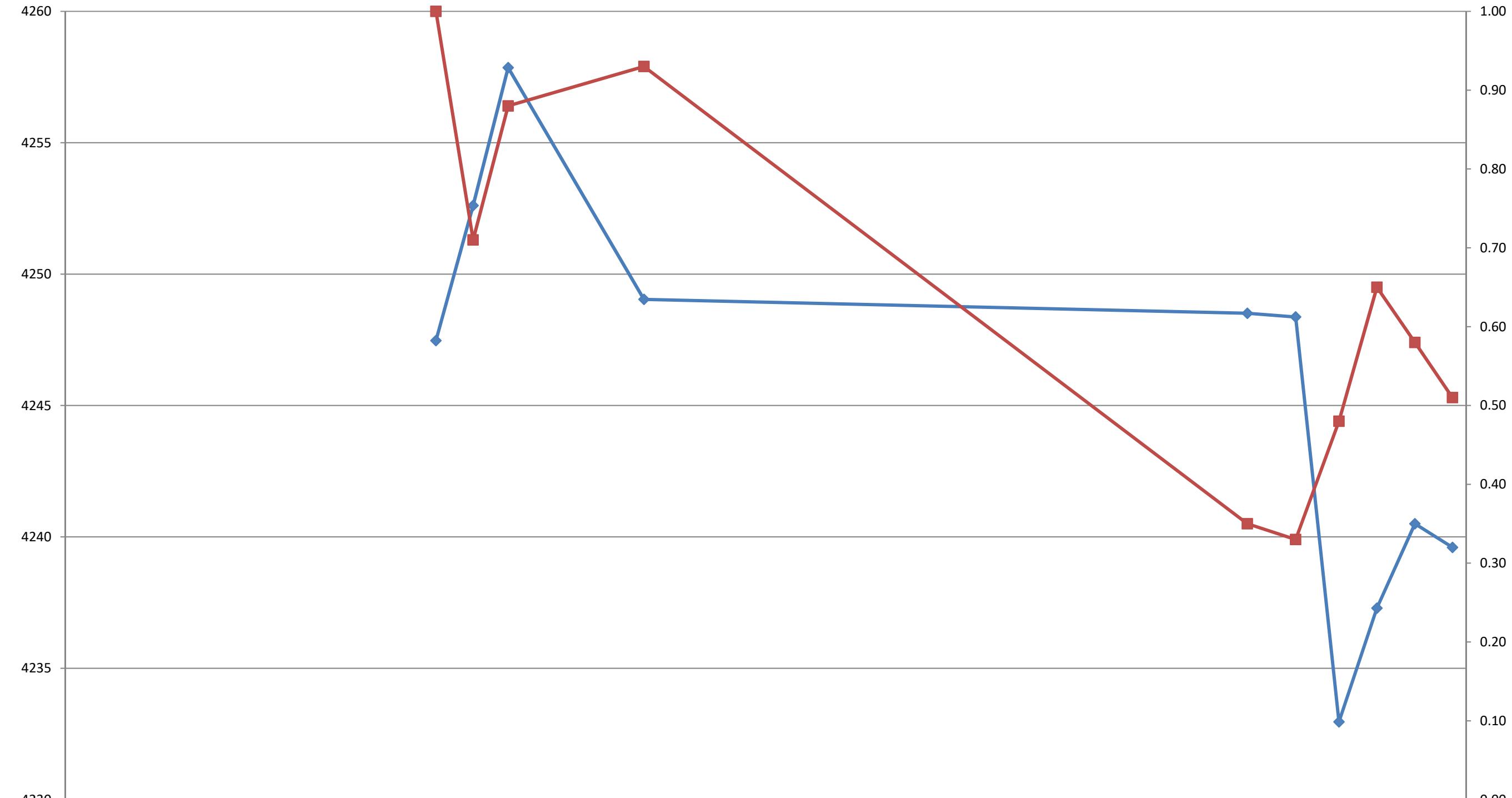
MW-107D



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)											4266.19	4265.01	4250.91	4254.14	4256.61	4250.78	4250.41	4250.79	4236.02	4238.74	4242.25	4241.75
PCE Conc. (ug/L)											1.40	1.30	1.70	1.50	2.30	1.70	2.00	0.13	0.29	1.20	0.44	0.00

Well Installed  
7/31/2012

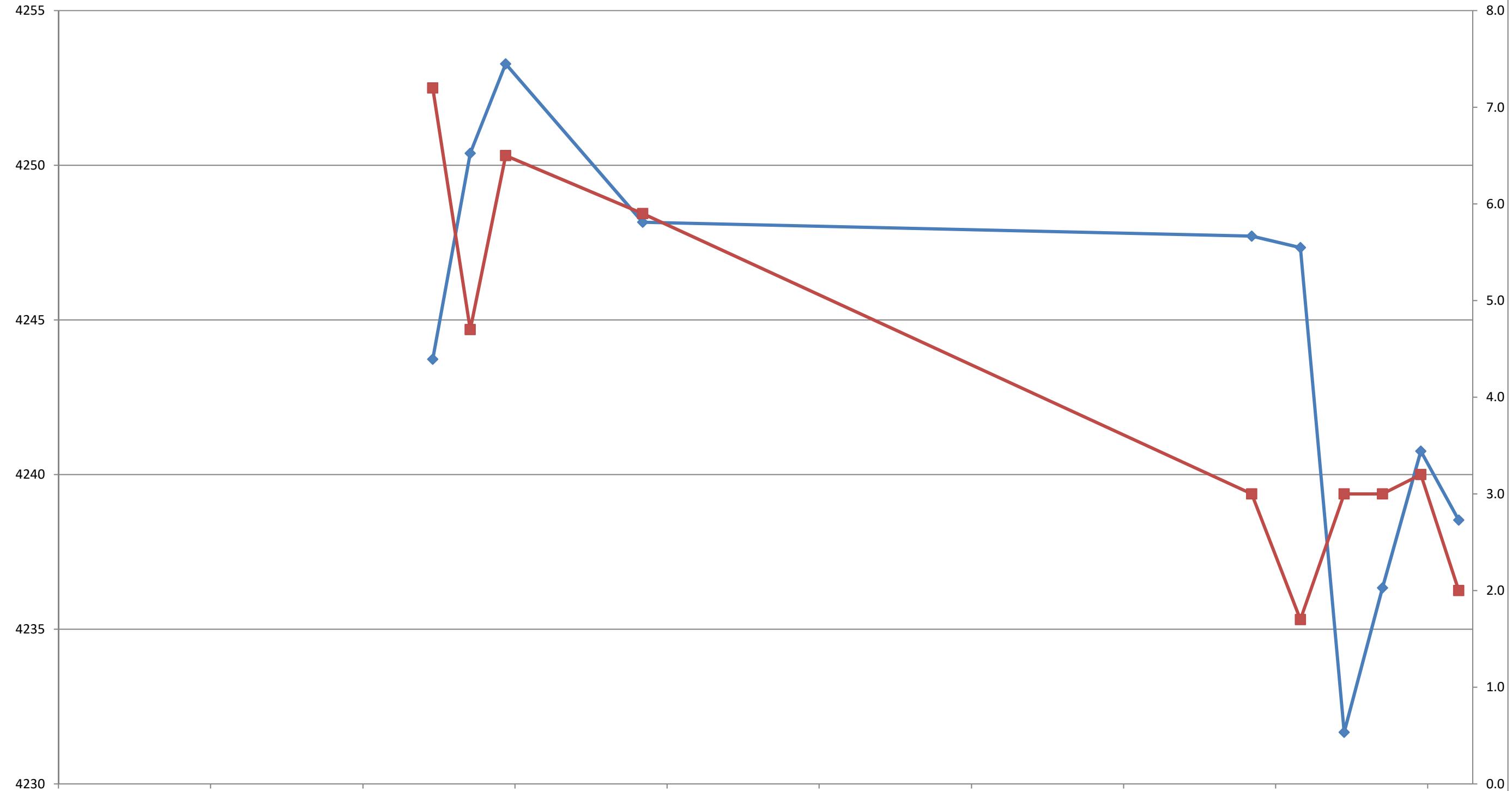
## MW-108I



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)													4247.47	4252.61	4257.86	4249.04	4248.51	4248.37	4232.96	4237.29	4240.50	4239.60
4254.58													1.00	0.71	0.88	0.93	0.35	0.33	0.48	0.65	0.58	0.51

**Well Installed**  
7/31/2012

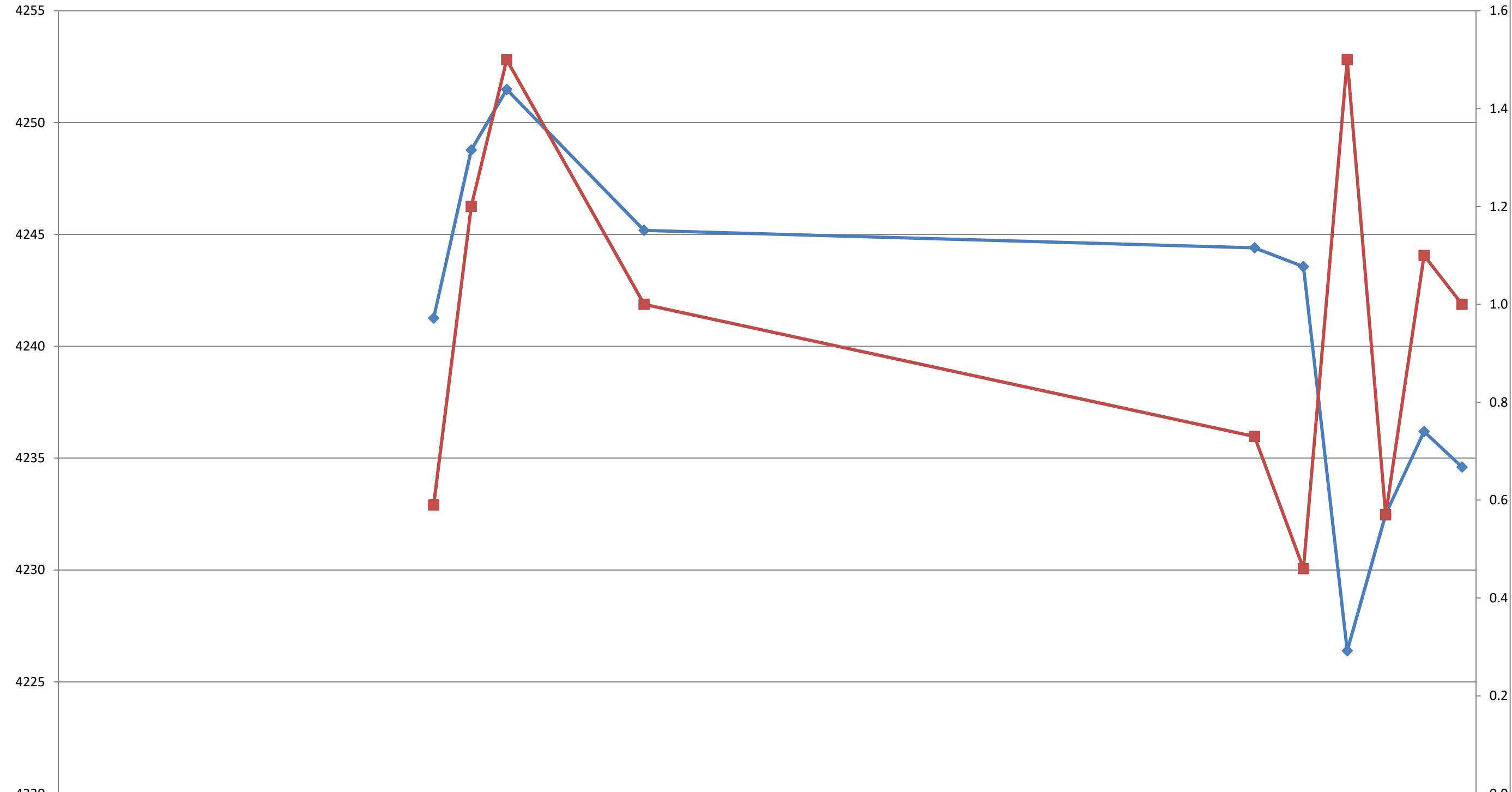
## MW-108D



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)	4243.73												4243.73	4250.39	4253.28	4248.16	4247.71	4247.34	4231.67	4236.34	4240.76	4238.53
PCE Conc. (ug/L)	7.20												7.20	4.70	6.50	5.90	3.00	1.70	3.00	3.00	3.20	2.00

Well Installed  
8/9/2012

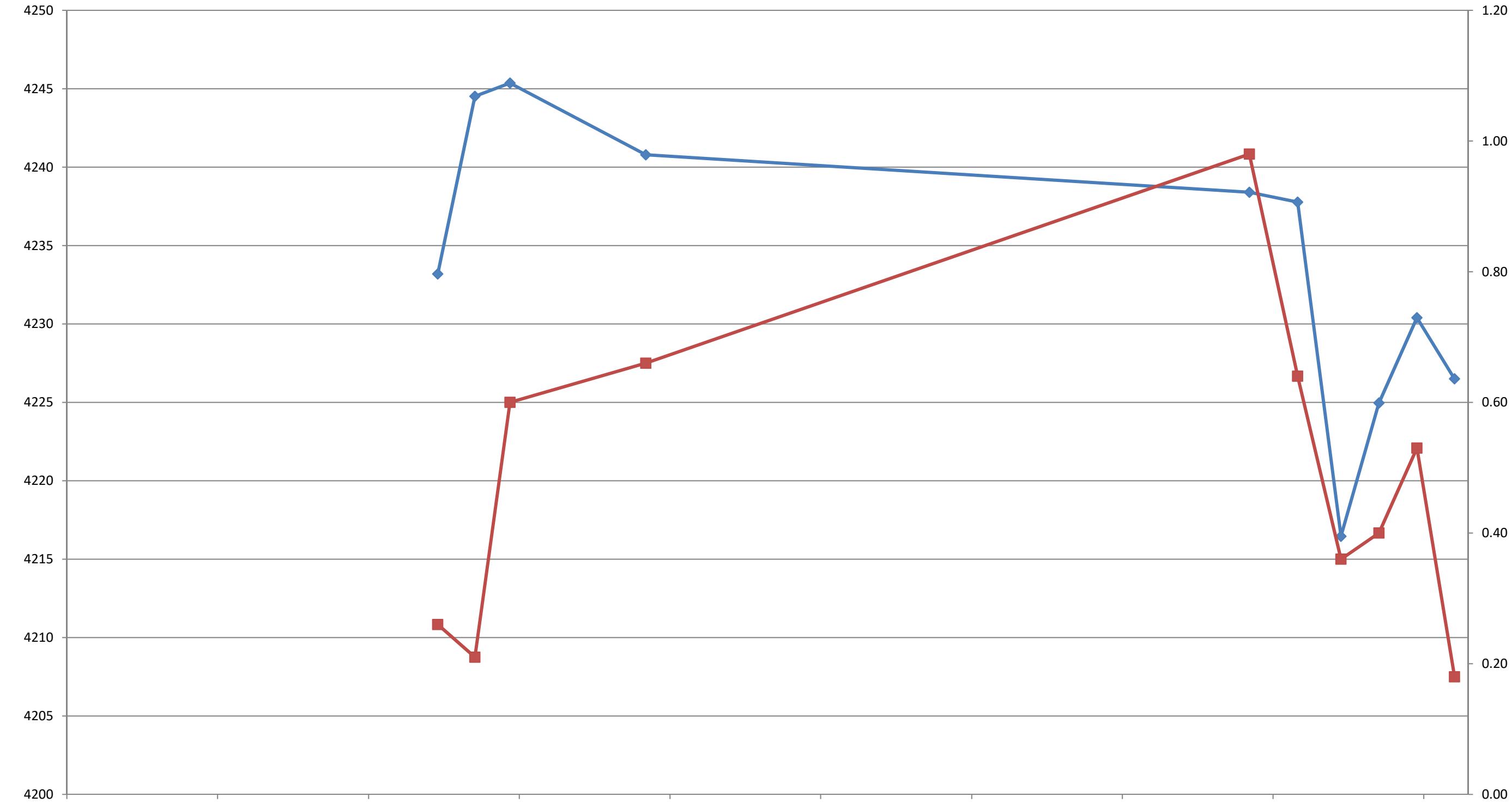
## MW-109I



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)													4241.26	4248.77	4251.48	4245.18	4244.40	4243.56	4226.39	4232.49	4236.19	4234.60
PCE Conc. (ug/L)													0.59	1.20	1.50	1.00	0.73	0.46	1.50	0.57	1.10	1.00

Well Installed  
8/9/2012

## MW-109D



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	5/29/19
Water Table Elevation (ft)													4233.19	4244.52	4245.36	4240.79	4238.40	4237.77	4216.46	4224.96	4230.40	4226.50
PCE Conc. (ug/L)													0.26	0.21	0.60	0.66	0.98	0.64	0.36	0.40	0.53	0.18

**Well Installed**  
**7/25/2012**

MW-110



Well Installed  
7/25/2012

## MW-110D

